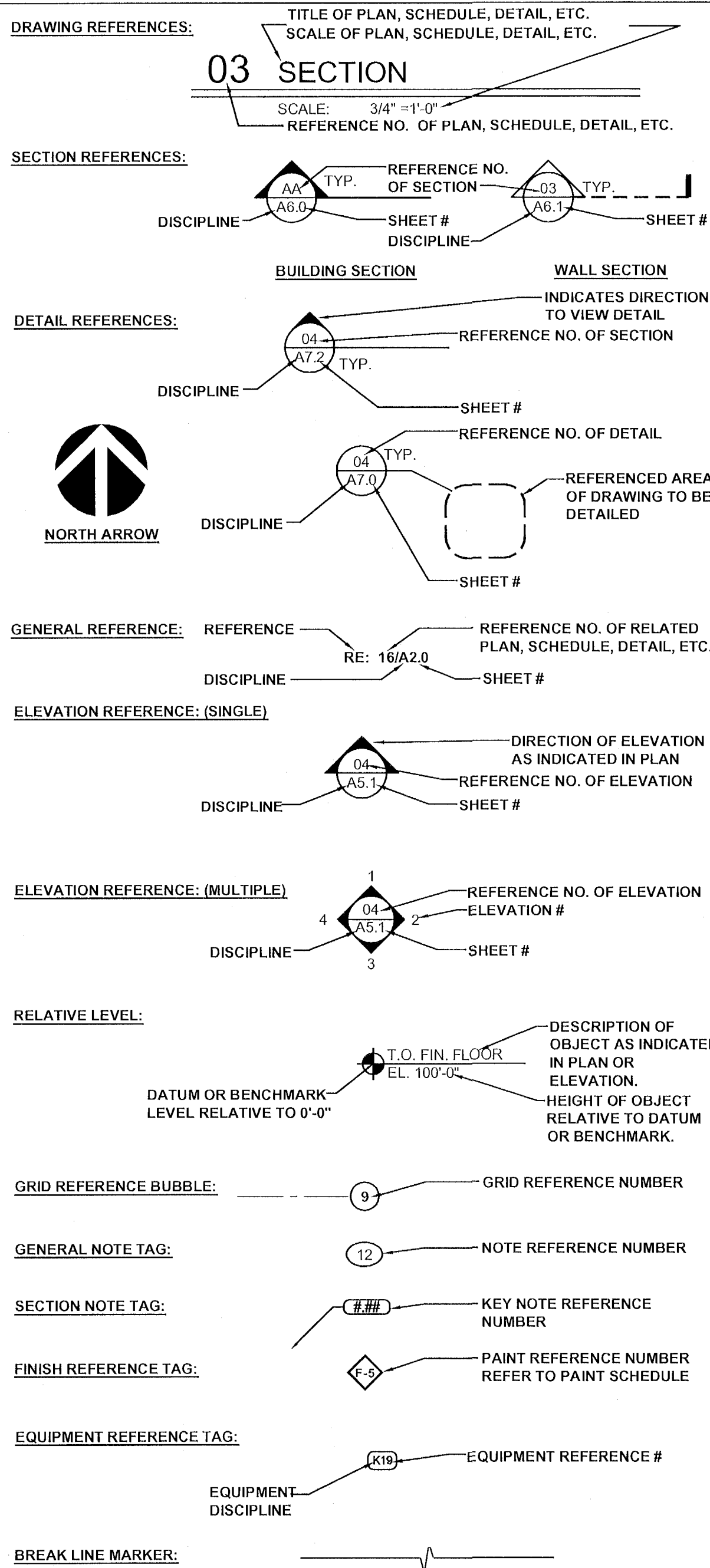


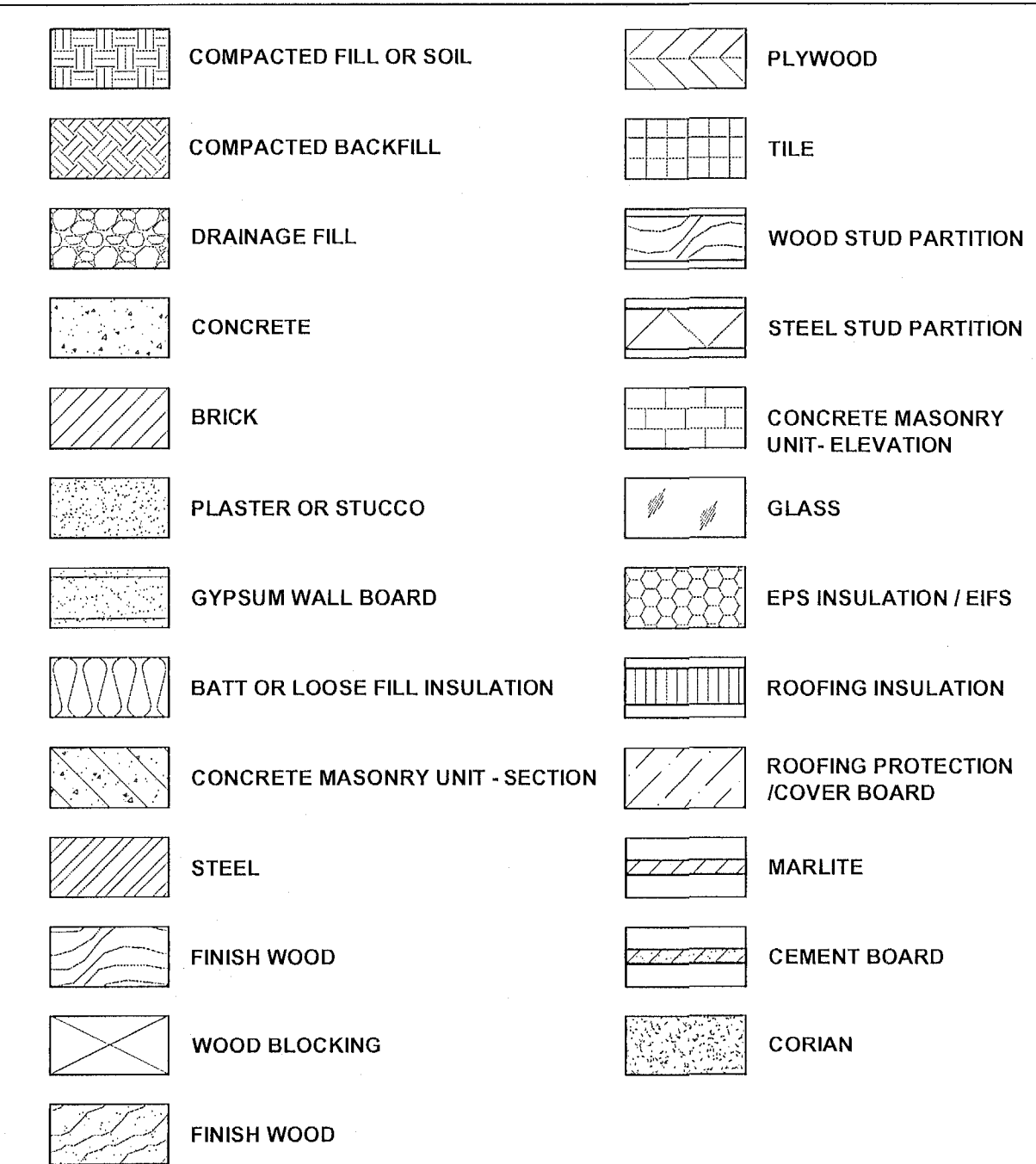
ABBREVIATIONS

&	AND	ELECT.	ELECTRICAL	KIT.	KITCHEN	RT.	RUBBER TILE
∠	ANGLE	ELVR.	ELEVATOR	K.O.	KNOCKOUT	RTU	ROOF-TOP UNIT
@	AT	E.O.S.	EDGE OF SLAB	KS	KNEE SPACE	RVS.	REVERSE (SIDE)
℄	CENTER LINE	E.P.	ELECTRICAL PANELBOARD			R.W.L.	RAIN WATER LEADER
℄	CHANNEL	EQ.	EQUAL	LAB.	LABORATORY	(S)	SEALANT
Ø	DIAMETER OR ROUND	EQP.	EQUIPMENT	LAM.	LAMINATE(D)	S.	SOUTH AND SLOPE
#	POUND OR NUMBER	EQUIP.	EQUIPMENT	LAV.	LAVATORY	S.A.	SUPPLY AIR
℄	PLATE	E.S.C.	EXTERIOR SPECIAL COATING	LBS.	POUNDS	SAN.	SANITARY
		EST.	ESTIMATE	L.F.	LINEAR FEET	S.A.T.	SUSPENDED ACOUSTICAL CEILING
		E.W.	EACH WAY	L.L.H.	LONG LEG HORIZONTAL	S.C.	SOLID CORE
		E.W.C.	ELECTRIC WATER COOLER	L.L.V.	LONG LEG VERTICAL	S.C.D.	SEAT COVER DISPENSER
		EXH.	EXHAUST	L.P.	LOW POINT OR LIGHT POLE	SCHED.	SCHEDULE
		EXIST.	EXISTING	L.T.	LIGHT	S.D.	SMOKE DETECTOR, SOAP DISPENSER AND STORM DRAIN
		EXP.	EXPANSION	L.W.C.	LIGHT WEIGHT CONCRETE	SEAL.	SEALANT
		EXT.	EXTERIOR	L.V.L.	LEVEL	SE.	SOUTHEAST
A, AMP.	AMPERE			MAS.	MASONRY	SECT.	SECTION
A.B.	ANCHOR BOLT	F.A.	FIRE ALARM	MATL.	MATERIAL (S)	S.F.	SQUARE FOOT/FEET
ABV.	ABOVE	F.B.O.	FURNISHED BY OWNER	MAX.	MAXIMUM	SHWR.	SHOWER
A/C	AIR CONDITIONING	F.B.T.	FURNISHED BY TENANT	M.B.	MACHINE BOLT	SHT.	SHEET
A.C.T.	ACOUSTICAL CEILING TILE	F.D.	FLOOR DRAIN	MECH.	MECHANICAL	SHTG.	SHEETING
ACoust.	ACOUSTICAL	F.D.C.	FIRE DEPARTMENT CONNECTION	MEZZ.	MEZZANINE	SIM.	SIMILAR
ADA	AMERICANS WITH DISABILITIES ACT	FDN.	FOUNDATION	MFR.	MANUFACTURER	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
ADAAG	ADA ACCESSIBILITY GUIDELINES	F.E.	FIRE EXTINGUISHER	M.H.	MANHOLE	S.N.D.	SANITARY NAPKIN DISPENSER
ADJ.	ADJUSTABLE	F.E.C.	FIRE EXTINGUISHER CABINET	MIN.	MINIMUM	S.N.R.	SANITARY NAPKIN RECEPTACLE
A.F.F.	ABOVE FINISH FLOOR	F.F.	FACTORY FINISH	MIR.	MIRROR	SP.	SPACES
A.F.G.	ABOVE FINISH GRADE	F.F.E.	FINISH FLOOR ELEVATION	MISC.	MISCELLANEOUS	SPECS.	SPECIFICATIONS
AL	AREA LIGHTING	F.F.L.	FINISH FLOOR LINE	M.O.	MASONRY OPENING AND MONEY ORDER MACHINE	SQ.	SQUARE
ALUM. or AL.	ALUMINUM	F.G.	FINISHED GRADE	M.R.D.	METAL ROOF DECK	S.S.	STAINLESS STEEL OR SANITARY SEWER
ALT.	ALTERNATE	F.H.	FIRE HYDRANT	MTD.	MOUNTED	SSMH	SANITARY SEWER MANHOLE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	F.H.M.S.	FLAT HEAD METAL SCREW	MTG.	MEETING	ST.	STREET
APLD.	APPLIED	F.H.W.S.	FLAT HEAD WOOD SCREW	MTL.	METAL	STA.	STATION
APPROX.	APPROXIMATE	FIN.	FINISH (ED)	MUL.	MULLION	STD.	STANDARD
ARCH.	ARCHITECTURAL	F.I.O.	FURNISHED AND INSTALLED BY OWNER	MWK.	MILLWORK	STL.	STEEL
ARCH'L.	ARCHITECTURAL	F.I.T.	FURNISHED & INSTALLED BY TENANT			STM.	STORM OR STORM LINE
ASPH.	ASPHALT	FL	FLOW LINE	(N)	NEW	STMH	STORM MANHOLE
AUTO.	AUTOMATIC	F.L.A.	FULL LOAD AMPS	N.	NORTH AND NEUTRAL	STOR.	STORAGE
AVE.	AVENUE	FLR.	FLOOR (ING)	N.E.	NORTHEAST	STRUCT.	STRUCTURAL
		FLSHG.	FLASHING	N.I.C.	NOT IN CONTRACT	SUSP.	SUSPENDED
B & B	BOARD & BATTEN	FLUOR.	FLUORESCENT	NO. OR #	NUMBER	S.V.	SHEET VINYL
B.F.S.	BELOW FINISHED SLAB	F.O.	FACE OF	NOM.	NOMINAL	SW.	SOUTHWEST
BH.	BULKHEAD	F.O.C.	FACE OF CURB/CONCRETE	N.T.S.	NOT TO SCALE	SYM.	SYMMETRICAL
BITUM.	BITUMINOUS	F.O.F.	FACE OF FINISH	O.A.	OVER ALL	T.	TRANSFORMER
BLDG.	BUILDING	F.O.I.C.	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	O.C.	ON CENTER (S) AND OVER COUNTER	T., TR.	TREAD
BLK.	BLOCK	F.O.M.	FACE OF MASONRY	O.C.O.	OUTSIDE CORNER OF	T.&B.	TOP & BOTTOM
BLKG.	BLOCKING	F.O.S.	FACE OF STUDS	O.D.	OUTSIDE DIAMETER (DIM.)	T.B.	TOWEL BAR
BLVD.	BOULEVARD	F.O.T.	FACE OF TREAD	O.F.	OVERFLOW	T.C.	TOP OF CURB
BM.	BEAM	FRP.	FIBER REINFORCED PANEL	OFF.	OFFICE	T.D.	TOP OF DRAIN
B.O.C.	BASE OF CURB	FRW.	FIRE-RETARDANT TREATED WOOD	O.F.O.	OUTSIDE FACE OF	TELE.	TELEPHONE
B.O.F.	BOTTOM OF FRAMING	F.S., F.	FIRE SERVICE	O.H.	OVERHEAD	T & G	TONGUE & GROOVE
BOT.	BOTTOM	FT.	FOOT OR FEET	OHE	OVERHEAD ELECTRIC	THK.	THICKNESS
BRD.	BOARD	FTG.	FOOTING	O.H.	OPPOSITE HAND	THRES.	THRESHOLD
BRG.	BEARING	FURR.	FURRING	OPP. HAND	OPPOSITE HAND	T.J.	TOOL JOINT
B.S.	BUILDING SECTION	FUT.	FUTURE	OPG.	OPENING	T.L.	TRUE LENGTH
BS.	BOTH SIDES	F.V.	FIELD VERIFY	OPP.	OPPOSITE	T.O.	TOP OF
BSMT.	BASEMENT	G.	GROUND AND NATURAL GAS	O.P.A.	OUTSIDE AIR	T.O.B.	TOP OF BEAM
BTWN.	BETWEEN	GA.	GAUGE	O.S.B.	ORIENTED STRAND BOARD	T.O.C.	TOP OF CURB/CONCRETE
B.U.	BUILT-UP	GAL.	GALLON	O.T.B.	OUT TO BID	T.O.D.	TOP OF DECK
BULKHD.	BULKHEAD	GALV.	GALVANIZED	P.	POLE	T.O.F.	TOP OF FOOTING
		G.B.	GRAB BAR	(P), P, PTD	PAINTED	T.O.J.	TOP OF JOIST
(C)	CAULK	G.C.	GENERAL CONTRACTOR	(PC)	PHOTOCELL LIGHTING	T.O.M.	TOP OF MASONRY
CAB.	CABINET	G.C.O.	GREASE CLEAN OUT	P.C.	PRECAST CONCRETE	T.O.P.	TOP OF PAVEMENT/PARAPET
C.B.	CATCH BASIN AND CIRCUIT BREAKER	G.C.F.	GROUND FAULT CIRCUIT INTERRUPTER	PERF.	PERFORATED	T.O.S.	TOP OF SLAB
		G.I.	GALVANIZED IRON (STEEL)	P.F.	PREFINISHED	T.O.W.	TOP OF WALL
C.C.	CENTER TO CENTER	GL	GLASS	PH.	PHASE AND PHARMACY	TOPO.	TOPOGRAPHY
CEM.	CEMENT	G.L.B.	GLU-LAM BEAM	P.I.P.	POURED IN PLACE	T.P.D.	TOILET PAPER DISPENSER
CER.	CERAMIC	GND.	GROUND	(PL)	POLE MOUNT	T.S.	TUBE STEEL AND TEMPERATURE SENSOR
CFM.	CUBIC FEET PER MINUTE	GR.	GRADE	PIL.	PROPERTY LINE	T.T.B.	TELEPHONE TERMINAL BOARD
CFL.	COUNTER FLASHING	G.S.	GALVANIZED STEEL	PL	PLATE	TYP.	TYPICAL
C.H.	CONDUCTOR HEAD	G.S.F.	GROSS SQUARE FOOTAGE	P.LAM.	PLASTIC LAMINATE	U.D.L.	UNIFORM DISTRIBUTED LOAD
CHT.	CEILING HEIGHT	GYP.	GYPSON	PLC'S	PLACES	UE	UNDERGROUND ELECTRIC
CI	CAST IRON	GYP. BRD.	GYPSON BOARD	PLUMB.	PLUMBING	U.N.O.	UNLESS NOTED OTHERWISE
C.I.P.	CAST IN PLACE	H.B.	HOSE BIBB	PLYWD.	PLYWOOD	UTIL.	UTILITY
C.J.	CONTROL JOINT	H.C.	HANDICAPPED	PNL.	PANEL	V.	VOLTS AND VENT
C.L.	CENTER LINE	H.C.A.	HEADED CONCRETE ANCHOR	PR.	PAIR	VAR.	VARIES
CL	COLUMN MOUNT	H.D.	HIGH DENSITY	PRESERV.	PRESERVATIVE	V.C.T.	VINYL COMPOSITION TILE
CLG.	CEILING	HD.	HEAD	PROP.	PROPOSED	VENT.	VENTILATION
CLOS.	CLOSET	HDBD.	HARDBOARD	P.S.F.	POUNDS PER SQUARE FOOT	VERT.	VERTICAL
CLR.	CLEAR	HDWD.	HARDWOOD	P.S.I.	POUNDS PER SQUARE INCH	VEST.	VESTIBULE
CLSRM.	CLASSROOM	HDWR., HW.	HARDWARE	P.T.	PRESSURE TREATED	V.I.F.	VERIFY IN FIELD
C.M.P.	CORRUGATED METAL PIPE	HDR.	HEADER	PTBD.	PARTICLE BOARD	V.P.	VENT PIPE
CMU.	CONCRETE MASONRY UNIT	H.M.	HOLLOW METAL	P.T.D.	PAPER TOWEL DISPENSER	VR.	VENT RISER
CNTR.	COUNTER	HORIZ.	HORIZONTAL	PTFR	PRESSURE TREATED FIRE RESISTIVE	V.T.	VINYL TILE
C.O.	CONCRETE OPENING AND CLEAN OUT OR CONDUIT ONLY.	H.P.	HIGH POINT AND HORSEPOWER	PTN.	PARTITION	VTR.	VENT THRU ROOF
		H.R.	HANDRAIL	PVC.	POLYVINYL CHLORIDE	V.W.C.	VINYL WALL COVERING
		HR.	HOSE	PVMT.	PAVEMENT	W.	WEST, WATTS AND WATER
		HT.	HEIGHT	P/WAY	PATHWAY	W/.	WITH
		HTR.	HEATER	Q.T.	QUARRY TILE	WC.	WALLCOVERING
D.A.	DOUBLE ACTING	H. & S.	HARDEN & SEAL	(R)	REMOVE	W.C.	WATER CLOSET
D.B.A.	DEFORMED BAR ANCHOR	HVAC	HEATING VENTILATING AND AIR CONDITIONING	R.	RISER	W.D.	WOOD
DBL.	DOUBLE	HYD.	HYDRANT	R., RL	RETURN AIR	W.GL.	WIRE GLASS
DEPT.	DEPARTMENT	HW	HOT WATER	RA.	RADIUS	W.H.	WATER HEATER
DET.	DETAIL	HWR	HOT WATER RECLAIM	RAD	RADIUS	W/O	WITHOUT
D.F.	DRINKING FOUNTAIN	HWV	HOT WATER VENT	R.B.	RUBBER BASE	WP.	WATERPROOF
DIA.	DIAMETER			R.D.	ROOF DRAIN	W.P.	WORK POINT
DIM.	DIMENSION	INCAN.	INCANDESCENT	RD.	ROAD & ROUND	WP/H.	WEEP HOLE
DIP	DUCTILE IRON PIPE	I.D.	INSIDE DIAMETER (DIM.)	RE:	REFERENCE, REFER TO, AND COORDINATE WITH	W.R.	WATER RESISTANT
DN.	DOWN	IE.	INVERT ELEVATION	REF.	REFLECTED	WSCOT.	WAINSCOT
DR.	DOOR	I.F.O.	INSIDE FACE OF	REFL.	REFLECTED	WT.	WEIGHT
D.S.	DOWNSPOUT	I.G.	ISOLATED GROUND	REFR.	REFRIGERATION	W.V.	WATER VALVE
DWG.	DRAWING	IN.	INCH	REFR.	REFRIGERATION	W.W.F.	WELDED WIRE FABRIC
		INSUL.	INSULATION	REIN.	REINFORCING		
(E)	EXISTING	INT.	INTERIOR AND INTERCOM	REL.	RELOCATED		
E.	EAST	INV.	INVERT	REQ'D.	REQUIRED		
EA.	EACH	IW	INTERMEDIATE WATER	RESIL.	RESILIENT		
E.B.	EXPANSION BOLT	JAN.	JANITOR	RFH.	ROOF HATCH		
E.F.	EXHAUST FAN	JMB.	JAMB	RM.	ROOM		
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM	JST.	JOIST	R.O.	ROUGH OPENING		
E.J.	EXPANSION JOINT	JT.	JOINT AND JOINT TRENCH	R.O.W.	RIGHT OF WAY		
EL.	ELEVATION			R.P.C.	REFRIGERATION PROBE CABLE		
ELEV.	ELEVATION						
ELEC.	ELECTRIC						

SYMBOLS LEGEND

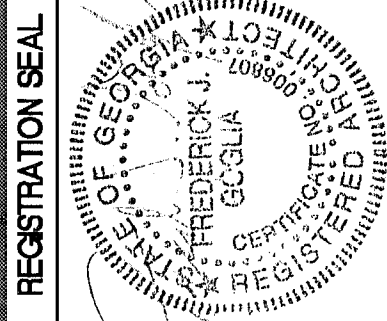


MATERIALS LEGEND

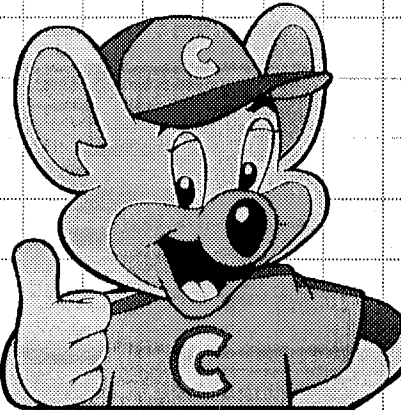


GENERAL NOTES

1. THE CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS AND REQUIREMENTS OF THE DRAWINGS AND ACCOMPANYING SPECIFICATIONS, INCLUDING OTHER PARTS OF THE PROPOSED CONTRACT DOCUMENTS, AND FULLY UNDERSTAND THE CONDITIONS, DIFFICULTIES AND RESTRICTIONS COMPLETELY, BEFORE EXECUTING THE WORK. IT IS UNDERSTOOD THAT OMISSIONS FROM THE BID, DUE TO FAILURE OF THE CONTRACTOR TO FULLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DOCUMENTS, WILL NOT ENTITLE HIM TO ADDITIONAL CONSIDERATION AND/OR COMPENSATION. G.C. SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT SITE PRIOR TO COMMENCING THE WORK.
2. SHOULD THE CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE CONSTRUCTION DOCUMENTS, OR BE IN DOUBT AS TO THE MEANING AND INTENTION OF ANY ITEM OR REQUIREMENT, THEY SHALL NOTIFY THE OWNER AT ONCE.
3. THE ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND PARAGRAPHS AND THE ARRANGEMENT OF THE DRAWINGS ARE NOT INTENDED TO CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR TO ESTABLISH THE LIMITS AND EXTENT OF WORK TO BE PERFORMED BY A PARTICULAR TRADE. THE G.C. ALONE IS RESPONSIBLE FOR THE COMPLETION OF THE ENTIRE WORK AS DRAWN AND SPECIFIED, COMPLETE IN PLACE AND IN FUNCTIONAL OR OPERATING CONDITION. THE DIVISION OF THE SPECIFICATIONS INTO SECTIONS AND PARAGRAPHS AND ORGANIZATION OF THE DRAWINGS IS FOR CONVENIENCE ONLY AND NOT FOR THE PURPOSE OF LIMITING OR RESTRAINING PERFORMANCE OF ANY PORTION OF THE WORK TO ANY PARTICULAR TRADE.
4. ALL WORK PERFORMED SHALL COMPLY WITH THE CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS, INCLUDING THESE GENERAL NOTES. THE G.C. SHALL COORDINATE THE INTENT OF THE GENERAL NOTES WITH ALL THE TRADES.
5. NO DEVIATION FROM CONTRACT DRAWINGS AND SPECIFICATIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
6. ANY STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS (IF REQUIRED) ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTING ENGINEERS' DRAWINGS THAT WOULD CAUSE AN IMPROPER INSTALLATION, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT.
7. SPECIFICATIONS ARE CONTAINED IN THESE CONTRACT DOCUMENTS.
8. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING SAME, OR THEIR EXACT MEANING, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
9. WHERE A TYPICAL CONDITION IS DETAILED, IT SHALL BE UNDERSTOOD THAT ALL LIKE OR SIMILAR CONDITIONS ARE THE SAME UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
10. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTHS OF ALL UTILITIES AT THE SITE. PROTECT THEM FROM DAMAGE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OF RECORD FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF WORK.
11. THE CONTRACTOR IS TO PROVIDE TEMPORARY FACILITIES AS REQUIRED BY APPLICABLE CODE, LOCAL AUTHORITIES OR JURISDICTIONAL ORDINANCE.
12. PRIOR TO COMMENCING THE WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD, COMPARE THOSE MEASUREMENTS TO THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT OF RECORD. DRAWINGS SHALL NOT BE SCALED OFF, FOR MEASUREMENT.
13. NO CHANGE IN THE SCOPE OR INTENT OF THE WORK SHALL OCCUR WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OF RECORD OR C.E.C. ENTERTAINMENT INC.
14. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BARRICADING AND BRACING NECESSARY TO ENSURE THE STRUCTURAL STABILITY OF THE BUILDING AND THE HEALTH OF THE PUBLIC AND ALL WHO ENTER THE BUILDING DURING COMPLETION OF THE SCOPE OF WORK DEFINED BY THIS ARCHITECTURAL DOCUMENTATION SET.
15. ALL WORK SHALL COMPLY WITH LOCAL BUILDING AUTHORITIES, CODES, REGULATIONS, ORDINANCES AND STATUTES, STATE, FEDERAL CODE AND OTHER JURISDICTIONAL AUTHORITIES, AND LATEST REVISIONS THEREOF. MODIFICATIONS REQUIRED BY THE ABOVE AND AUTHORITY SHALL BE MADE WITHOUT ADDITIONAL CHARGE TO THE OWNER.
16. ALL EMERGENCY BUILDING EXITS REQUIRED BY CODE, SHALL BE OPERABLE AND UNOBSTRUCTED DURING CONSTRUCTION PERIOD.
17. FIRE EXTINGUISHER CABINETS TO BE FURNISHED AND INSTALLED BY THE G.C. ARE TO BE IN COMPLIANCE WITH CITY AND APPLICABLE FIRE CODES.
18. BOTH PLACEMENT AND QUANTITY OF FIRE EXTINGUISHERS TO BE DETERMINED BY THE FIRE MARSHALL AND COMPLY WITH ALL N.F.P.A. REQUIREMENTS. G.C. TO COORDINATE INSTALLATION.
19. FIRE SPRINKLER SYSTEMS ARE TO BE SUBMITTED BY THE GENERAL CONTRACTOR FOR SEPARATE REVIEW AND PERMIT AS REQUIRED BY THE FIRE DEPARTMENT.
20. THE CONTRACTOR SHALL REVIEW THE LOCATIONS OF ALL FIRE LIFE SAFETY DEVICES WITH THE FIRE INSPECTOR AND THE OWNER REPRESENTATIVE FOR ON-SITE APPROVAL PRIOR TO INSTALLATION.
21. INTERIOR FINISHES SHALL COMPLY WITH LOCAL CODES.
22. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL STIFFENERS, BRACING, BLOCKING, BACKING, HANGERS, BACK-UP PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE INSTALLATION OF ALL CASEWORK, FIXTURES AND PARTITIONS AND ALL WALL MOUNTED OR SUSPENDED PLUMBING, MECHANICAL, ELECTRICAL, OR MISCELLANEOUS EQUIPMENT AND FURNISHINGS.
23. EXIT PATH LIGHTING SHALL BE PROVIDED FOR HALLWAY, EXIT PASSAGEWAY AND EGRESS TO A PUBLIC WAY ANY TIME THE BUILDING IS OCCUPIED.
24. ALL EXIT LIGHTING AND SIGNS SHALL HAVE SIX INCH HIGH LETTERS ON A CONTRASTING BACKGROUND.
25. NEW EXIT SIGNS SHALL BE ILLUMINATED WITH TWO 15W LAMPS ON SEPARATE CIRCUIT. ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES WIRING SYSTEM. ONE OF EACH SHALL BE SEPARATED FROM ALL OTHER CIRCUITS IN THE BUILDING, AND INDEPENDENTLY CONTROLLED.
26. WHENEVER THE BUILDING IS OCCUPIED, EXIT SIGNS SHALL BE LIGHTED SO THAT THEY ARE CLEARLY VISIBLE.
27. FIRE-RESISTIVE WALLS AND PARTITIONS MAY HAVE OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES NOT EXCEEDING 16 SQUARE INCHES IN AREA, PROVIDED THE AGGREGATE AREA OF SUCH OPENINGS IS NOT MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION AREA. "OUTLET BOXES" ON OPPOSITE SIDES OF WALLS AND PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES.
28. INTERIOR WALL AND CEILING FINISH FLAME-SPREAD RATING SHALL BE AS REQUIRED BY LOCAL CODES.
29. PENETRATIONS IN WALLS, FLOORS OR ROOF REQUIRING PROTECTED OPENINGS SHALL BE FIRE-STOPPED IN ACCORDANCE WITH LOCAL CODES.
30. ALL WIRING WITHIN CONCEALED SPACES SHALL COMPLY WITH LOCAL CODES.
31. ALL DOOR SIZES SHOWN ARE OPENING SIZES. ALLOWANCE FOR THRESHOLDS (1/2" MIN), ETC. SHALL BE DEDUCTED. FRAMES SHALL BE REINFORCED WHERE REQUIRED FOR CLOSURES, STOPS AND HARDWARE.
32. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8-12 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS.
33. ALL LEGAL EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT AND SHALL SWING IN THE DIRECTION OF EGRESS. G.C. TO PROVIDE EXIT SIGNS AS REQUIRED BY THE BUILDING OFFICIALS. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE.
34. DOORS EQUIPPED WITH PANIC HARDWARE SHALL BE OPEN-ABLE WITH A FORCE OF 15 LBS. AS APPLIED IN THE DIRECTION OF EGRESS TO THE BAR.
35. EGRESS DOORS SHALL BE OPERABLE UNDER A TOTAL PRESSURE OF NOT GREATER THAN 15 LBS.
36. ALL PUBLIC LIGHT SWITCHES, FIRE ALARMS AND OTHER PUBLIC CONTROL SWITCHES SHALL BE MOUNTED AT 4'-0" ABOVE THE FINISH FLOOR.
37. ALL DISCIPLINES REQUIRED TO PROVIDE SHOP DRAWINGS AND OR SAMPLES OF FINISHES, TO SUBMIT TO THE CONTRACTOR PRIOR TO START, WHO WILL FORWARD TO ARCHITECT AND C.E.C. ENTERTAINMENT INC. FOR COMMENTS, FOR APPROVAL OR RE-SUBMITTAL.
38. THE SECURITY SYSTEMS ARE TO BE PROVIDED AND INSTALLED BY OTHERS. G.C. SHALL BE RESPONSIBLE FOR COORDINATION WITH OWNER'S SECURITY SYSTEMS CONTRACTOR.
39. REPLACE WORK OR PORTIONS OF THE WORK, NOT CONFORMING TO SPECIFIED REQUIREMENTS IN THE OPINION OF C.E.C. ENTERTAINMENT INC. AND OR CAHEN ARCHITECTURAL GROUP P.C.
40. ALL ITEMS TO BE SUPPLIED AND INSTALLED (TO A FULLY FINISHED LEVEL) BY G.C. - G.C. TO PROVIDE POWER AS REQUIRED.
41. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE DAILY CLEANUP OF THE JOB SITE AND IT'S SURROUNDING AREA AND REMOVE ALL CONSTRUCTION DEBRIS FOR PROPER DISPOSAL.
42. THE G.C. SHALL:
 - COORDINATE PARKING, MATERIAL DELIVERY, AND DUMPSTER LOCATIONS W/ DEVELOPER.
 - MAINTAIN ALL PEDESTRIAN WALKWAYS OPEN DURING CONSTRUCTION.
 - COORDINATE ANY SPRINKLER SHUT OFFS W/ DEVELOPER.
43. FIRE ALARM SYSTEM TO BE SUBMITTED BY THE GENERAL CONTRACTOR FOR SEPARATE REVIEW & PERMIT AS REQUIRED BY THE FIRE DEPARTMENT.



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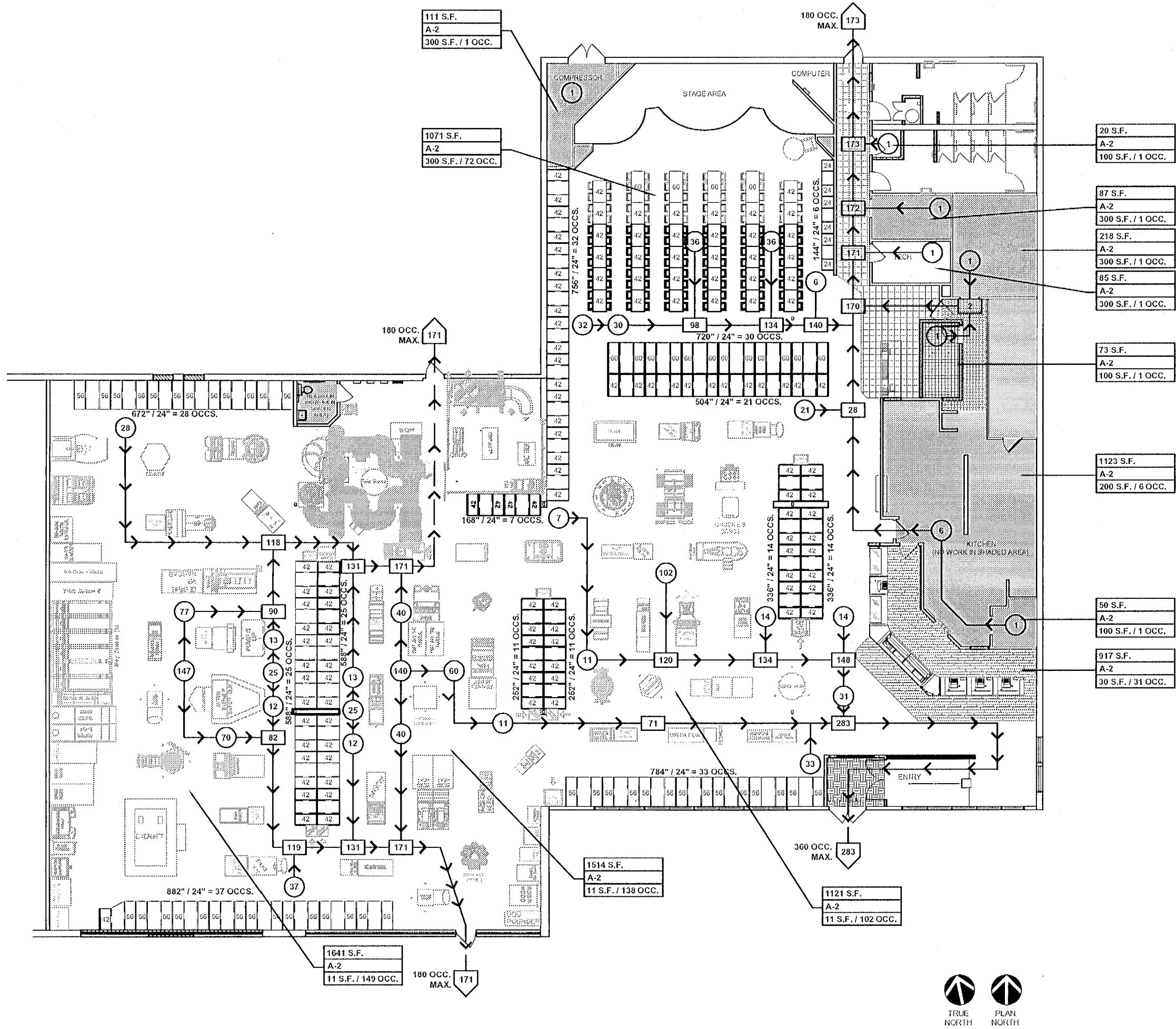


CHUCKECHESE'S
RICHMOND PLAZA SHOPPING CENTER
3485 WRIGHTSBORO ROAD
AUGUSTA, GA 30909
STORE# 939

NAME	DESCRIPTION	REV	DATE
PROJECT NO: 01-301	DRAWN BY: HH		
CHECKED BY: JCL			
ISSUE DATE: 03/11/11			

CS2.0

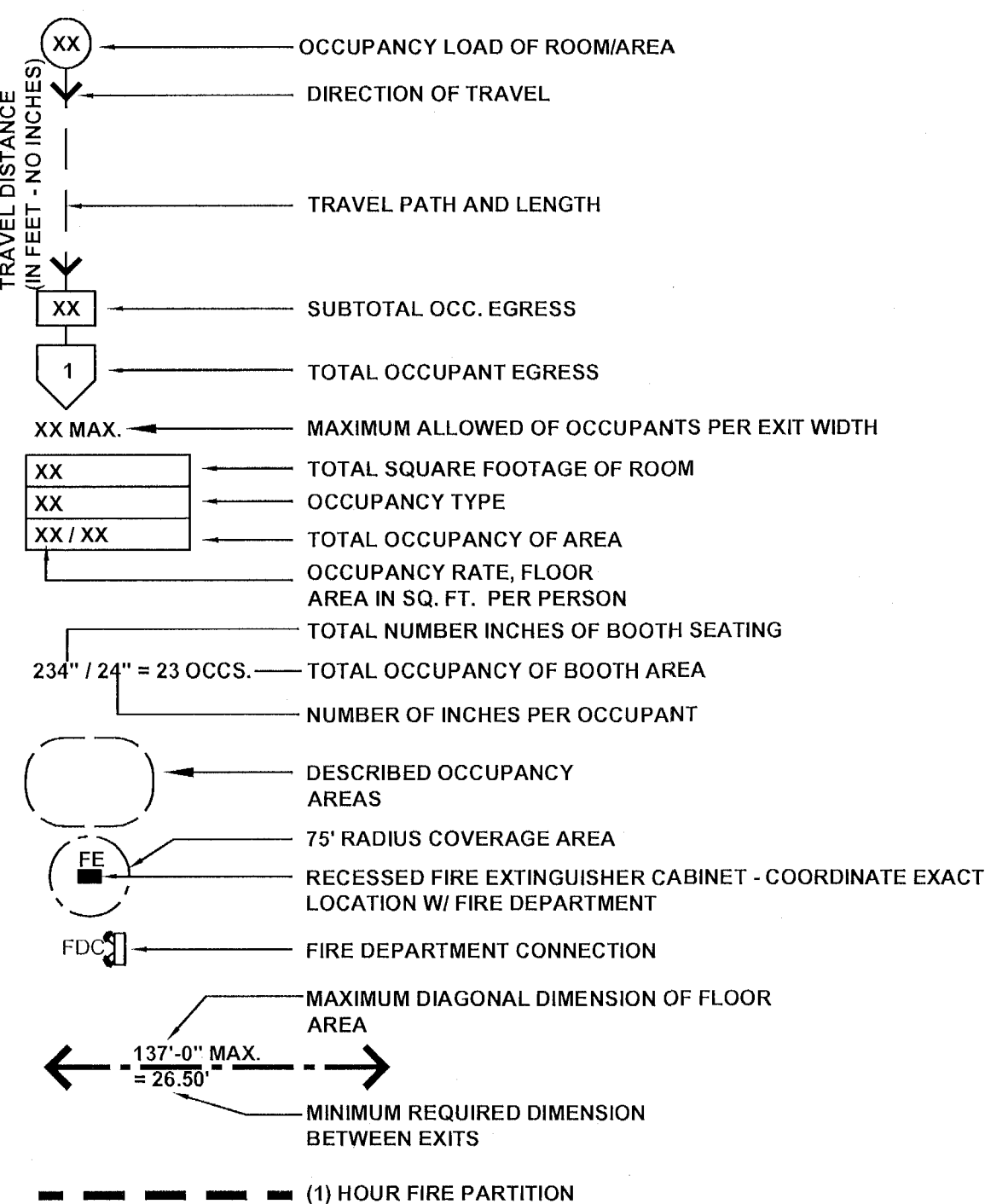
GENERAL NOTES



01 CODE & EXITING PLAN

SCALE: NTS

CODE PLAN LEGEND



FIRE RATED ASSEMBLIES: (WHERE REQUIRED)

- ONE-HOUR STUD WALL CONSTRUCTION: UL#U465
- ONE-HOUR OR TWO-HOUR PENETRATION: UL#W-L-1049
- ONE-HOUR OR TWO-HOUR CABLE PENETRATION: UL#W-L-1019
- ONE-HOUR OR TWO-HOUR SLIP JOINT: UL#W-D-9118
- TWO-HOUR CALK JOINT: UL#W-S-9032
- PIPE PENETRATION AT STUD PARTITION: UL#W-L-7025

CODE ANALYSIS

BUILDING INFORMATION:

LOCATION: 3435 WRIGHTSBORO RD
AGUSTA, GA 30909

SITE AREA: ± S.F.

MAXIMUM HEIGHT PERMITTED BY CITY: PROPOSED: IN-LINE MALL CENTER NO CHANGES PROPOSED TO EXTERIOR

PARKING REQUIREMENTS: ACCESSIBLE SPACES PER I.B.C. - TABLE 1106.1
REQUIRED: VAN ACCESSIBLE SPACES PER I.B.C. - SECTION 1106.5

PROVIDED: ALL PARKING EXISTING BY LANDLORD

BUILDING CODE SUMMARY:

BUILDING CODE: 2006 INTERNATIONAL BUILDING CODE, WITH GA AMEND.
OCCUPANCY CLASS: A-2 (ASSEMBLY)
CONSTRUCTION TYPE: V-B (NON-RATED) FULLY SPRINKLERED
BASE ALLOWABLE AREA:

BUILDING SQUARE FOOTAGE: 16,976 GROSS SQUARE FEET
FLOOR AREA: 16,377 NET SQUARE FEET

FIRE AREA:

NUMBER OF STORIES: 1 - STORY
TOTAL BUILDING PERIMETER: 604 FEET
OPEN BUILDING PERIMETER: 514 FEET

APPLICABLE CODES:

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS IN AFFECT AT THE TIME OF BIDDING AND CONSTRUCTION.
MECHANICAL: 2006 INTERNATIONAL MECHANICAL CODE, WITH GA AMENDMENTS INCLUDING 2006 INTERNATIONAL FUEL GAS CODE
ELECTRICAL: 2006 NATIONAL ELECTRICAL CODE, WITH GA AMENDMENTS
PLUMBING: 2006 INTERNATIONAL PLUMBING CODE, WITH GA AMENDMENTS
HEALTH: 2006 INTERNATIONAL FIRE CODE, WITH GA AMENDMENTS
FIRE: 2006 INTERNATIONAL FIRE CODE, WITH GA AMENDMENTS
ACCESSIBILITY: GEORGIA ACCESSIBILITY CODE
ENERGY: 2006 INTERNATIONAL ENERGY CONSERVATION CODE, W GA AMEND.
FIRE SPRINKLER: NFPA 13
FIRE ALARM: NFPA 72

I.B.C. CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS

GENERAL HEIGHT AND AREA LIMITATIONS: SECTION 503.1.3:

HEIGHT/AREA LIMITATIONS:

MAXIMUM ALLOWABLE AREA PER TABLE 503 FOR A-2

OCCUPANCY: TYPE V-B = 6,000 SQUARE FEET / ONE STORY

AUTOMATIC SPRINKLER SYSTEM HEIGHT INCREASE: SECTION 504.2

WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, THE VALUE SPECIFIED IN TABLE 503 FOR MAXIMUM HEIGHT IS INCREASED BY 20 FEET AND THE MAXIMUM NUMBER OF STORIES IS INCREASED BY ONE STORY.

MAX. HEIGHT. ALLOWED PER TABLE 503 FOR A-2 OCCUPANCY:

- TYPE V-B = 1 STORY AND 40' HIGH
- ALLOWABLE SPRINKLER INCREASE: 2 STORIES AND 60' HIGH

ACTUAL HEIGHT:

SECTION 506 - AREA MODIFICATIONS:

FRONTAGE INCREASE: IF = [(514' OPEN FRONTAGE / 604' TOTAL PERIMETER) - 0.25] W/30

IF = 0.60

ALLOWABLE AREA:

AA = [AT + (AT X IF) + (AT X IS)]
AA = 6,000 S.F. + (6,000 S.F. X 0.60) + (6,000 X 300%)

AA = 6,000 S.F. + 3,600 S.F. + 18,000 S.F.
AA = 27,600 S.F. PERMITTED.

CONCLUSION:

ALLOWABLE AREA PER STORY: ALLOWABLE 28,500 S.F. PROPOSED 16,377 S.F.

I.B.C. CHAPTER 6 - TYPES OF CONSTRUCTION

SECTION 602 - BUILDING CLASSIFICATION:

TYPE V-B (NON-RATED)

SECTION 602.3 TYPE V:

TYPE V CONSTRUCTION IS THAT TYPE OF CONSTRUCTION IN WHICH THE STRUCTURAL ELEMENTS, EXTERIOR WALLS AND INTERIOR WALL ARE OF ANY MATERIALS PERMITTED BY THIS CODE.

FIRE-RESISTANT RATINGS PER TABLE 601:

BUILDING ELEMENT V-B

- STRUCTURAL FRAME 0
- EXTERIOR BEARING WALLS 0
- INTERIOR BEARING WALLS 0
- EXTERIOR NON-BEARING WALLS SEE TABLE 602
- INTERIOR NON-BEARING WALLS 0
- FLOOR CONSTRUCTION 0
- ROOF CONSTRUCTION 0

FIRE-RESISTANT RATINGS FOR EXTERIOR WALLS PER TABLE 602:

TYPE V-B CONSTRUCTION, A-2
OCCUPANCY:
≤ 5 FEET = 1 HOUR
> 5 FEET & ≤ 10 FEET = 1 HOUR
> 10 FEET & ≤ 30 FEET = 0 HOUR
> 30 FEET = 0 HOUR

I.B.C. CHAPTER 7 - FIRE-RESISTANT RATED CONSTRUCTION

SECTION 704.2.2:

TYPE V-B CONSTRUCTION: PROJECTIONS FROM WALLS OF TYPE V CONSTRUCTION SHALL BE OF ANY APPROVED MATERIALS.

SECTION 1014 EXIT ACCESS:

1014.2 EGRESS THROUGH INTERVENING SPACES:

EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS ARE ACCESSORY TO THE AREA SERVED; ARE NOT HIGH-HAZARD OCCUPANCIES AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT. EGRESS SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, CLOSETS OR SPACES USED FOR SIMILAR PURPOSES.

1014.3 COMMON PATH OF EGRESS TRAVEL: THE COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED 75 FEET.

SECTION 1016.1 TRAVEL DISTANCE LIMITATIONS: (WITH SPRINKLER SYSTEM)

OCCUPANCY TYPES A-2: 250 FEET (B)

B. BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2. SEE SECTION 903 FOR OCCUPANCIES WHERE AUTOMATIC SPRINKLER SYSTEMS IN ACCORDANCE WITH SECTION 903.3.1.2 ARE PERMITTED.

SECTION 1019 NUMBER OF EXITS AND CONTINUITY:

1019.1 TABLE 1019.1: MINIMUM NUMBER OF EXITS:

-FOR OCCUPANT LOADS MORE THAN 500 S.F.:

3 EXITS REQUIRED.

NUMBER OF EXITS PROPOSED:

4 EXITS TOTAL PROPOSED

I.B.C. CHAPTER 9 - FIRE PROTECTION SYSTEMS

903.2.1.2 GROUP A-2:

AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT BUILDINGS CONTAINING A GROUP A-2 OCCUPANCIES WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:

THE FIRE AREA EXCEEDS 5,000 SQUARE FEET.

SECTION 907 FIRE ALARM AND DETECTION SYSTEMS:

907.2 WHERE REQUIRED:

AN APPROVED MANUAL AND AUTOMATIC FIRE ALARM SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 907.2 THROUGH 907.2.23. WHERE AUTOMATIC SPRINKLER PROTECTION IS PROVIDED AND CONNECTED TO THE BUILDING FIRE ALARM SYSTEM, AUTOMATIC HEAT DETECTION SHALL NOT BE REQUIRED. AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND NFPA 72.

907.2.1 GROUP A-2:

A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED IN GROUP A-2 OCCUPANCIES HAVING AN OCCUPANT LOAD OF 300 OR MORE PERSONS OR MORE.

I.B.C. CHAPTER 10 - MEANS OF EGRESS

SECTION 1003 GENERAL MEANS OF EGRESS:

1003.2 CEILING HEIGHT:

-THE MEANS OF EGRESS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FEET.

1003.3 PROTRUDING OBJECTS:

-PROTRUDING OBJECT SHALL COMPLY WITH THE REQUIREMENTS OF SECTIONS 1003.3.1 THROUGH 1003.3.4.

1003.3.1 HEADROOM: PROTRUDING OBJECTS ARE PERMITTED TO EXTEND BELOW THE MINIMUM CEILING HEIGHT REQUIRED PROVIDED A MINIMUM OF 80 INCHES SHALL BE PROVIDED FOR ANY WALKING SURFACE. NOT MORE THAN 50 PERCENT OF THE CEILING AREA OF A MEANS OF EGRESS SHALL BE REDUCED IN HEIGHT BY PROTRUDING OBJECTS.

1003.3.2 FREE-STANDING OBJECTS: A FREE-STANDING OBJECT MOUNTED ON A POST OR PYLON SHALL NOT OVERHANG THE POST OR PYLON MORE THAN 12 INCHES WHERE THE LOWEST POINT OF THE LEADING EDGE IS MORE THAN 27 INCHES AND LESS THAN 80 INCHES ABOVE THE WALKING SURFACE.

1003.3.3 HORIZONTAL PROJECTIONS: STRUCTURAL ELEMENTS, FIXTURES OR FURNISHINGS SHALL NOT PROJECT HORIZONTALLY FROM EITHER SIDE MORE THAN 4 INCHES OVER ANY WALKING SURFACE BETWEEN HEIGHTS OF 27 INCHES AND 80 INCHES ABOVE THE WALKING SURFACE.

HANDRAILS SERVING STAIRS AND RAMPS ARE PERMITTED TO PROTRUDE 4.5 INCHES FROM THE WALL.

1003.4 FLOOR SURFACE: WALKING SURFACES OF THE MEANS OF EGRESS SHALL HAVE A SLIP-RESISTANT SURFACE AND BE SECURELY ATTACHED.

SECTION 1004 OCCUPANT LOAD:

THE FOLLOWING IS THE MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT PER TABLE 1004.1.1 THAT POTENTIALLY COULD BE USED:

PROPOSED OCCUPANT LOAD SUMMARY			
USE	OCCUPANT (SQ FT)	RESTAURANT AREA	OCCUPANT LOAD
ASSEMBLY w/o FIXED SEATS	11 NET	4276 SQ FT	389 OCC.
GAMES AREA			
RESTAURANT w/o FIXED SEATING	15 NET	1071 SQ FT	72 OCC.
MERCANTILE ORDER/PRICE COUNTER	30 GROSS	917 SQ FT	31 OCC.
RESTAURANTS w/ FIXED SEATING	1 PERSON PER 24" FOR BOOTHS	6,982 IN.	291 OCC.
KITCHEN / SERVING AREA	200 GROSS	1,123 SQ FT	6 OCC.
STORAGE AREA	300 GROSS	390 SQ FT	4 OCC.
OFFICE AREA	100 GROSS	143 SQ FT	3 OCC.
TOTAL			796 OCC.
TOTAL x 2" = EXITING WIDTH REQUIRED			155"
EXITING WIDTH PROVIDED (4 EXITS)			180"

SECTION 1024 EXIT DISCHARGE:

1024.1 GENERAL:

EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING. THE EXIT DISCHARGE SHALL BE AT GRADE OR SHALL PROVIDE DIRECT ACCESS TO GRADE. THE EXIT DISCHARGE SHALL NOT REENTER A BUILDING.

EXCEPTION 1: A MAXIMUM OF 50 PERCENT OF THE NUMBER AND CAPACITY OF THE EXIT ENCLOSURES IS PERMITTED TO EGRESS THROUGH AREAS ON THE LEVEL OF DISCHARGE PROVIDED ALL OF THE FOLLOWING ARE MET:
1.1: SUCH EXIT ENCLOSURES EGRESS TO A FREE AND UNOBSTRUCTED WAY TO THE EXTERIOR OF THE BUILDING, WHICH WAY IS READILY VISIBLE AND IDENTIFIABLE FROM THE POINT OF TERMINATION OF THE EXIT ENCLOSURE.
1.2: THE ENTIRE AREA OF THE LEVEL OF DISCHARGE IS SEPARATED FROM AREAS BELOW BY CONSTRUCTION CONFORMING TO THE FIRE-RESISTANCE RATING FOR THE EXIT ENCLOSURE.

1.3: THE EGRESS PATH FROM THE EXIT ENCLOSURE ON THE LEVEL OF DISCHARGE IS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM.

I.B.C. CHAPTER 11 - ACCESSIBILITY

SECTION 1104 ACCESSIBLE ROUTE:

1104.1 SITE ARRIVAL POINTS:

ACCESSIBLE ROUTES WITHIN THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS; ACCESSIBLE PARKING; ACCESSIBLE PASSENGER LOADING ZONES; AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE SERVED.

SECTION 1106 PARKING AND PASSENGER LOADING FACILITIES:

1106.1 REQUIRED:

WHERE PARKING IS PROVIDED, ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN COMPLIANCE WITH TABLE 1106.1, EXCEPT AS REQUIRED BY SECTIONS 1106.2 THROUGH 1106.4. WHERE MORE THAN ONE PARKING FACILITY IS PROVIDED ON A SITE, THE NUMBER OF PARKING SPACES REQUIRED TO BE ACCESSIBLE SHALL BE CALCULATED SEPARATELY FOR EACH PARKING FACILITY.

FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, AT LEAST ONE SHALL BE A VAN-ACCESSIBLE PARKING SPACE.

I.B.C. CHAPTER 29 - PLUMBING SYSTEMS

MINIMUM NUMBER OF PLUMBING FIXTURES PER TABLE 2902.1:

FIXTURES PER TYPE A-2 OCCUPANCY AND BUILDING PROPOSED OCCUPANT LOAD: (544 TOTAL)

OCCUPANT LOAD	REQUIRED:	MALE	FEMALE
WATER CLOSETS:	REQUIRED:	398 OCC.	398 OCC.
	PROPOSED:	1 PER 75	1 PER 75
		= 6 REQUIRED	= 6 REQUIRED
		6 PROPOSED	6 PROPOSED
LAVATORIES:	REQUIRED:	1 PER 200	1 PER 200
	PROPOSED:	= 2 REQUIRED	= 2 REQUIRED
		3 PROPOSED	3 PROPOSED
DRINKING FOUNTAINS:	REQUIRED:	1 PER 500 (TOTAL OCC.)	
	PROPOSED:	= 2 REQUIRED	
		BEVERAGE BAR PROVIDED	
SERVICE SINK:	REQUIRED:	1 SERVICE SINK	
	PROPOSED:	1 SERVICE SINK PROVIDED	

I.F.C. APPENDIX B - FIRE-FLOW REQUIREMENTS FOR BUILDING

B105.2 FIRE-FLOW REQUIREMENTS FOR BUILDINGS:

THE MINIMUM FIRE FLOW AND FLOW DURATION FOR BUILDINGS SHALL BE SPECIFIED IN TABLE B105.1

EXCEPTION: A REDUCTION IN REQUIRED FIRE FLOW OF UP TO 50 PERCENT, AS APPROVED, IS ALLOWED WHEN THE BUILDING IS PROVIDED WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM INSTALLED, THE REDUCTION MAY BE UP TO 75 PERCENT. THE RESULTING FIRE FLOW SHALL NOT BE LESS THAN 1,500 GPM FOR THE PRESCRIBED DURATION AS SPECIFIED IN TABLE B105.1.

PER TABLE B105.1 FOR MINIMUM REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS: (PRIOR TO FIRE SPRINKLER REDUCTION)

CONSTRUCTION	FIRE AREA SQUARE FOOTAGE	FIRE-FLOW	FLOW DURATION
V-B	16,377 S.F.	3,500 GPM	3 HOURS

PER TABLE B105.1 FOR MINIMUM REQUIRED FIRE FLOW AND FLOW DURATION FOR BUILDINGS: (INCLUDES FIRE SPRINKLER REDUCTION)

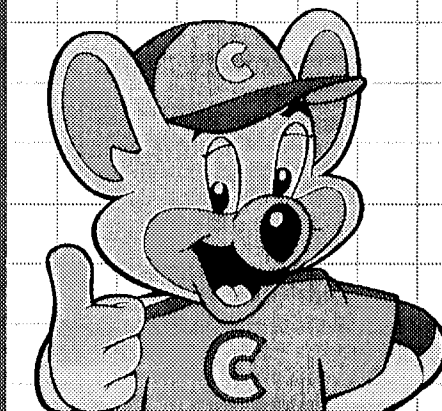
CONSTRUCTION	FIRE AREA SQUARE FOOTAGE	FIRE-FLOW	FLOW DURATION
V-B	16,377 S.F.	1,750 GPM	2 HOURS

I.F.C. APPENDIX C - FIRE HYDRANT LOCATIONS AND DISTRIBUTION

PER TABLE C105.1 FOR NUMBER AND DISTRIBUTION OF FIRE HYDRANTS:

FIRE-FLOW REQUIREMENT (GPM)	# OF HYDRANTS	SPACING BETWEEN HYDRANTS	MAX. DISTANCE TO ROAD OR FRONTAGE
1,750 OR LESS	1	500 FEET	250 FEET

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PROJECT NO.	DATE	DESCRIPTION	REV.
10-301			
DRAWN BY: HH			
CHECKED BY: RK			
ISSUE DATE:			
03/11/11			

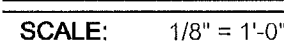
CODE PLAN AND ANALYSIS
CS3.0

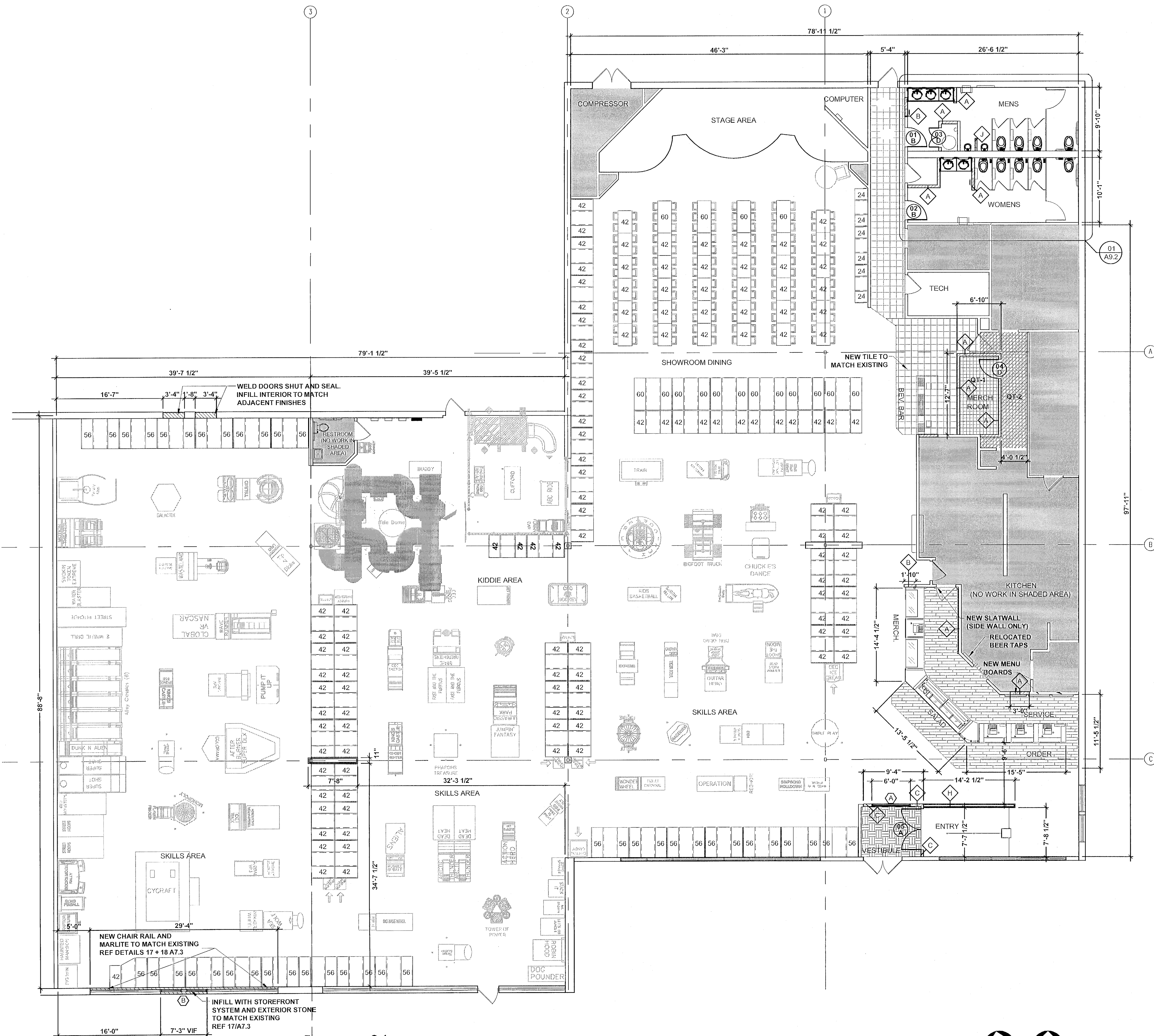


PLAN
NORTH

<u>D1.01:</u>	GC TO REMOVE ALL EXISTING RESTROOM FLOORWALL TILE AND BASES. REF. SHEET A2.0/A2.1 FOR NEW FLOOR FINISHES.
<u>D1.02:</u>	GC TO REMOVE ALL EXISTING RESTROOM PARTITIONS, VANITIES AND PLUMBING FIXTURES. CAP UNDER FLOORS AS NEEDED. REF. SHEET A9.2 FOR NEW RESTROOM INFO.
<u>D1.03:</u>	GC TO REMOVE MAX OCCUPANCY SIGNAGE.
<u>D1.04:</u>	GC TO REMOVE EXISTING CARPET. REF. SHEET A2.0 FOR NEW FLOOR FINISHES.
<u>D1.05:</u>	EXISTING FLOOR TILE TO BE REMOVED.
<u>D1.06:</u>	EXISTING BOOTHS TO REMAIN.
<u>D1.07:</u>	GC TO REMOVE INDICATED BOOTHS. REF. SHEET A9.0 FOR NEW FURNITURE LOCATIONS.
<u>D1.08:</u>	GC TO RELOCATE INDICATED BOOTHS. REF. SHEET A9.0 FOR NEW FURNITURE LOCATIONS.
<u>D1.09:</u>	GC TO REUSE AND RELOCATE EXISTING TABLES. EXISTING CHAIRS TO BE REPLACED WITH NEW. REF. SHEET A9.0 FOR NEW FURNITURE LOCATIONS.
<u>D1.10:</u>	GC TO REMOVE EXISTING ORDER COUNTER, MERCH COUNTER, BEV BAR, AND SALAD BAR. REF. SHEET A1.0 AND A9.0 FOR NEW.
<u>D1.11:</u>	GC TO PROTECT STRUCTURAL COLUMNS DURING CONSTRUCTION.
<u>D1.12:</u>	GC TO DEMO FULL HEIGHT INTERIOR WALLS SHOWN HATCHED.
<u>D1.13:</u>	GC TO DEMO LOW INTERIOR WALLS SHOWN HATCHED.
<u>D1.14:</u>	GC TO DEMO FULL HEIGHT INTERIOR DEMISING WALL.
<u>D1.15:</u>	GC TO REMOVE EXISTING EXTERIOR DOORS. REF. SHEET A1.0 FOR MORE INFO.
<u>D1.16:</u>	GC TO REMOVE EXISTING SNEEZIE GUARD.
<u>D1.17:</u>	GC TO REMOVE AND RELOCATE EXISTING COTTON CANDY HANGER AND PIZZA CIRCLES. REF. SHEET A9.0 FOR NEW LOCATIONS.
<u>D1.18:</u>	GC TO REMOVE EXISTING MENU BOARDS. REF. SHEET A1.0 AND A9.0 FOR NEW.
<u>D1.19:</u>	GC TO DEMO INTERIOR DOOR AND FRAME. SAVE DOUBLE DOORS AND FRAME AT ENTRY FOR REUSE. REF A1.0 FOR NEW.
<u>D1.20:</u>	GC TO RELOCATE LICENSING BOARDS. REF A9.0 FOR NEW LOCATION.
<u>D1.21:</u>	GC TO RELOCATE EXISTING BEER TAPS. REF A1.0 FOR NEW LOCATION.
<u>D1.22:</u>	GC TO REMOVE SLATWALL ON SIDE WALL ONLY. REF A5.0 FOR NEW LOCATION.
<u>D1.23:</u>	GC TO REMOVE AND ABANDON EXISTING ELECTRICAL PANELS. RELOCATE WIRING FOR ANY REMAINING FIXTURES/EQUIP.
<u>D1.24:</u>	GC TO REMOVE EXISTING BOOTH FILLER.

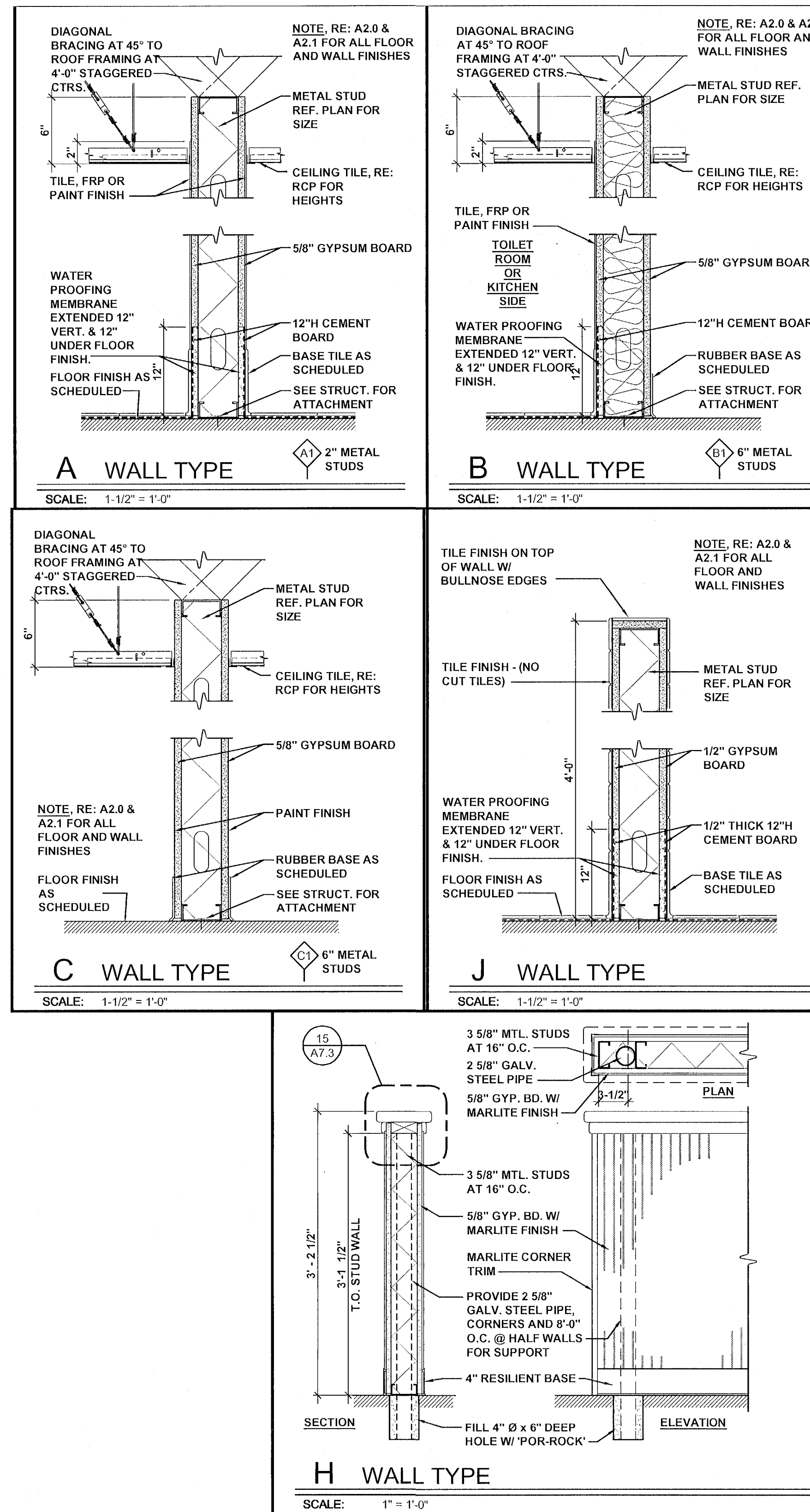
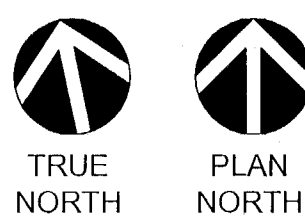
D1.0





01 FLOOR PLAN

SCALE: 1/8" = 1'-0"



FLOOR PLAN NOTES

1. EXTERIOR DIMENSIONS SHOWN TO EDGE OF SLAB OR FOUNDATION, ALL OTHER DIMENSIONS TO FACE OF STUD.
2. INTERIOR "CLEAR" DIMENSIONS ARE FINISH DIMENSIONS, "HOLD" ARE TO STUDS.
3. SECURITY SYSTEMS ARE TO BE PROVIDED AND INSTALLED BY OTHERS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OWNER'S SECURITY SYSTEMS CONTRACTOR.
4. ALL INTERIOR PARTITIONS ARE TO BE BUILT AS SHOWN ON A1.0 EXCEPT WHERE NOTED OTHERWISE.
5. METAL STUDS ARE TO BE 20 GAUGE AT 16" O.C. UNLESS OTHERWISE NOTED.
6. CONSTRUCT RATED PARTITIONS IN ACCORDANCE WITH REQUIREMENTS OF NOTED FIRE RATED DESIGN ASSEMBLIES.
7. SET FLOOR TRACK ON CONTINUOUS BEADS OF ACOUSTICAL SEALANT ON BOTH SIDES.
8. PROVIDE INSULATION IN WALLS AS INDICATED ON WALL TYPES.
9. ALL GYPSUM BOARD TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. GYPSUM BOARD SHALL BE TAPED AND BEDDED. PROVIDE FIRE TAPE AT FIRE RATED PARTITIONS. SEE SPECIFICATIONS.
10. PROVIDE WOOD BLOCKING IN PARTITIONS AS REQUIRED. COORDINATE WITH THE OWNER ON ITEMS/FIXTURES AND EQUIPMENT INSTALLED BY THE OWNER THAT MAY REQUIRE BLOCKING.
11. WALL SURFACES MUST BE CLEANED AND DUST FREE PRIOR TO CAULKING.
12. ELECTRICAL BOXES SHALL NOT BE MOUNTED BACK TO BACK. BOXES SHALL BE SEALED TO GYPSUM BOARD WITH RESILIENT CAULK.

WINDOW TYPE DOOR No. DOOR TYPE REFER TO A8.0 FOR WINDOW AND DOOR LEGEND

REGISTRATION SEAL

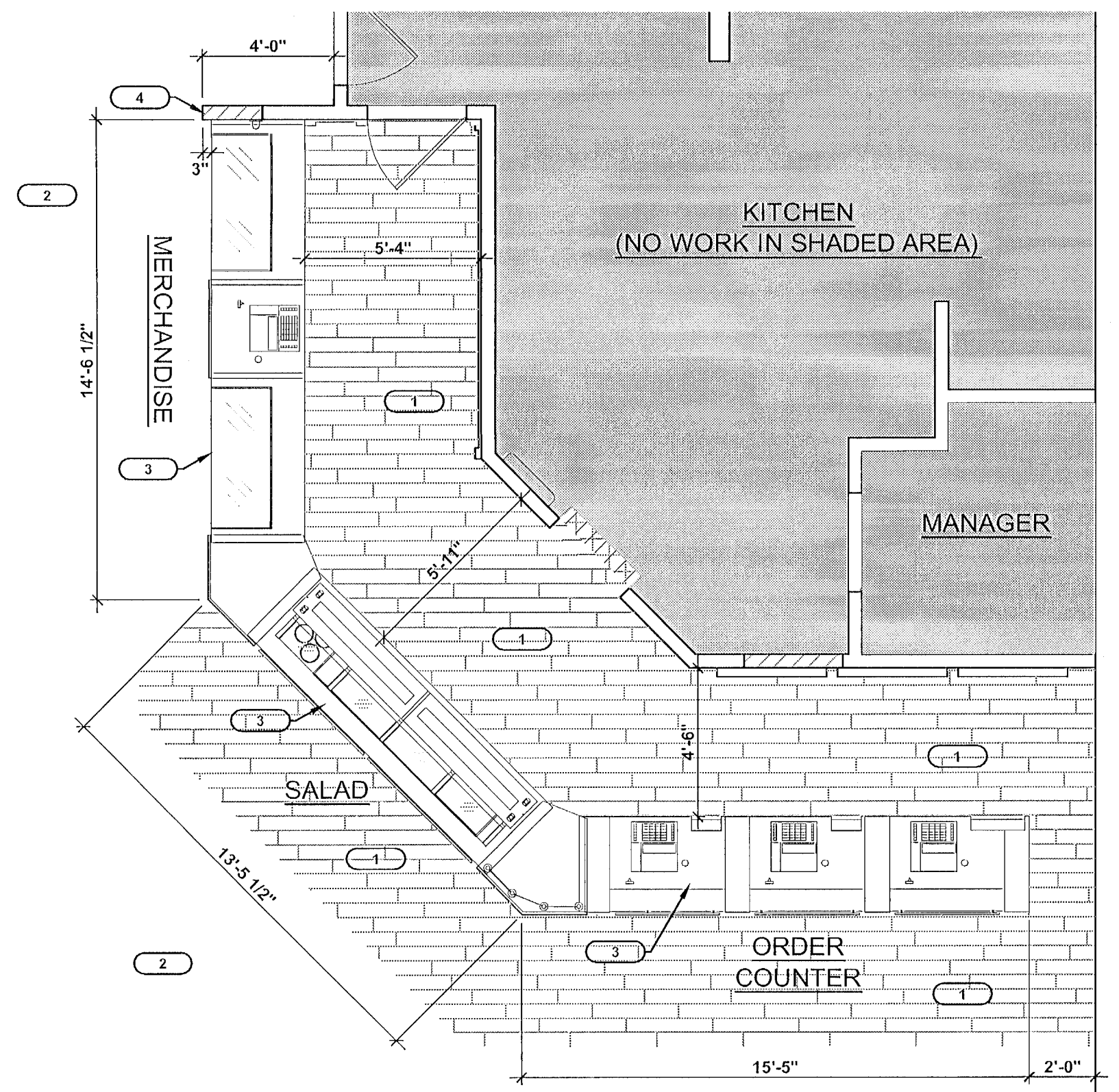
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STORE # 999

PROJECT NO: 10/301
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DIMENSIONED FLOOR PLAN

A1.0



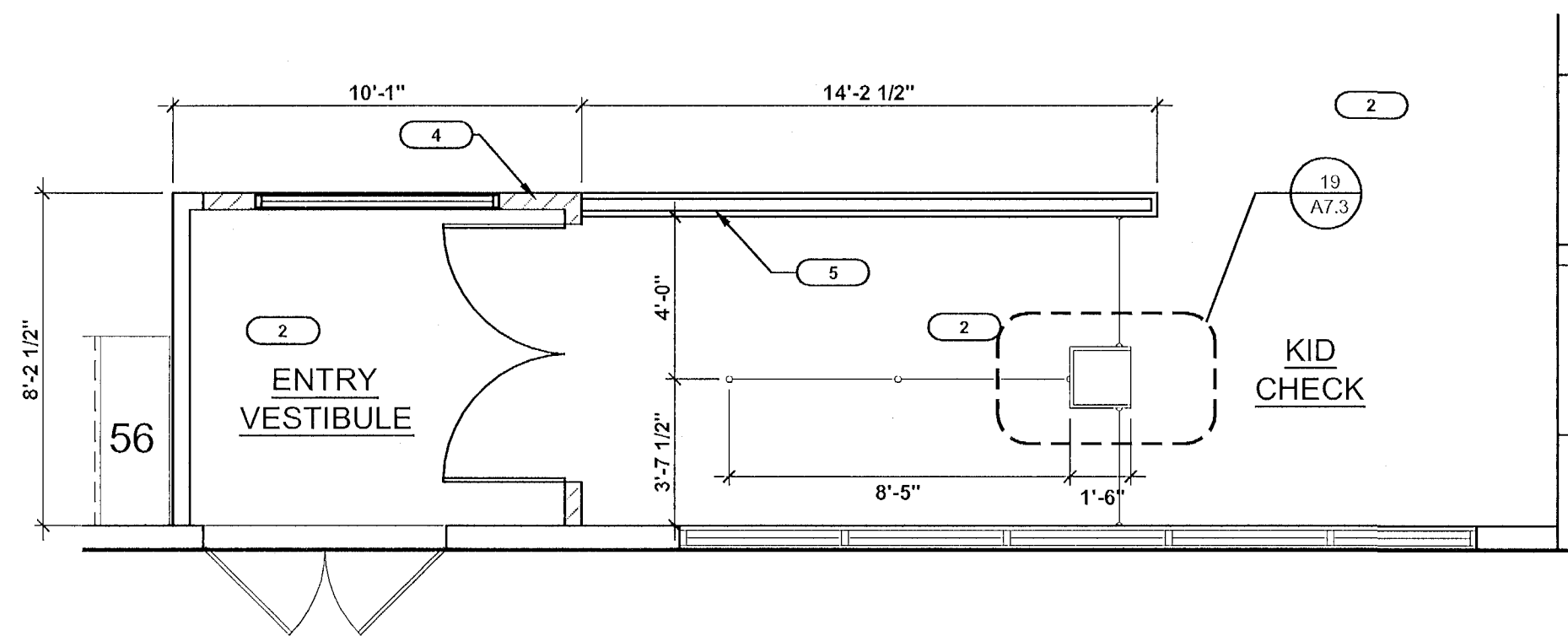
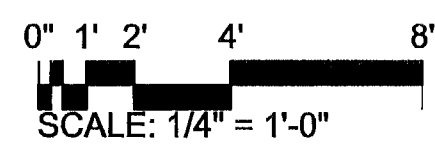
01 DIMENSIONED COUNTER PLAN

SCALE: 1/4" = 1'-0"

DIMENSIONS TO FACE OF STUD



PLAN NORTH



02 DIMENSIONED CHECK-IN/ENTRY VESTIBULE PLAN

SCALE: 1/4" = 1'-0"

DIMENSIONS TO FACE OF STUD

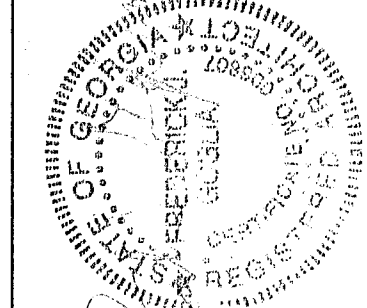


PLAN NORTH

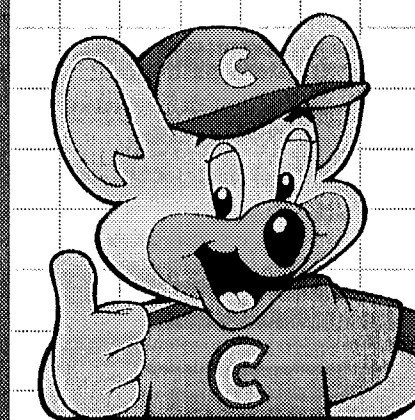
ENLARGED FLOOR PLAN KEY NOTES

- 1 GC TO INSTALL NEW TILE, REF FLOOR FINISH PLAN (SHEET A2.0)
- 2 GC TO INSTALL NEW CARPET, REF FLOOR FINISH PLAN (SHEET A2.0)
- 3 GC TO INSTALL NEW COUNTERS.
- 4 GC TO CONSTRUCT FULL HEIGHT WALL, PER DETAIL A/A1.0
- 5 GC TO CONSTRUCT LOW WALL PER DETAIL H/A1.0

REGISTRATION SEAL



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PROJECT NO: 10-130

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CHECKED BY: RK

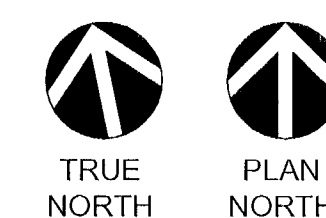
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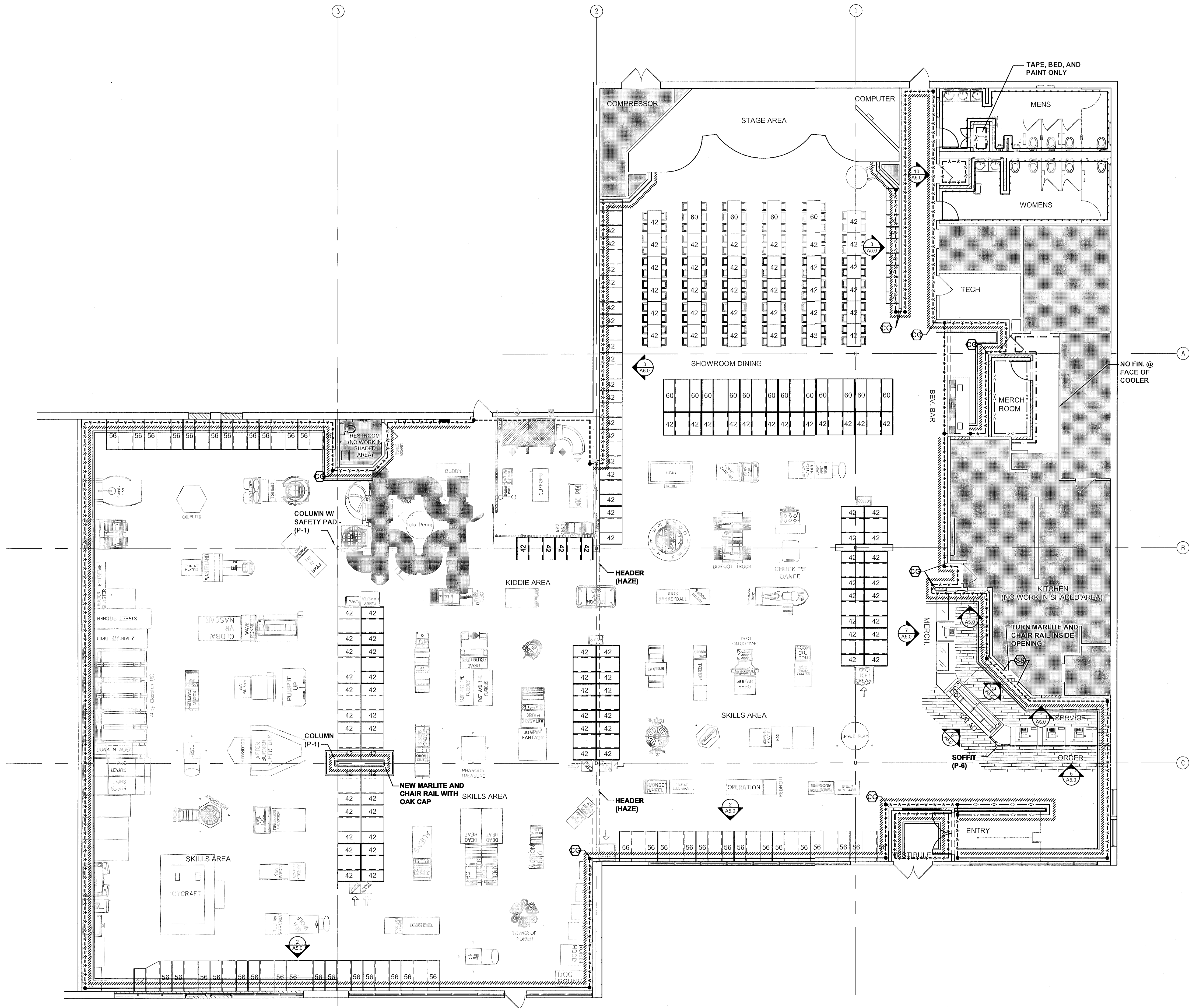
03/11/11

DIMENSIONED ENLARGED FLOOR PLAN

A1.1



A2.0



WALL FINISH LEGEND

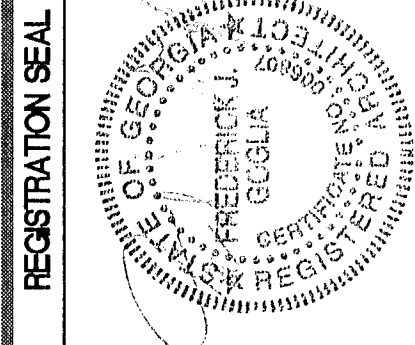
- FINISH TRANSITION
- FRP
- PAINT WALL (P-2 "WHITE WOOL")
- PAINT WALL (P-4 "CORSICAN PURPLE")
- PAINT WALL (P-6 LATTE)
- PAINT WALL (P-5 "FLAT BLACK")
- CERAMIC WALL TILE W/ PAINT ABOVE (P-6 LATTE) - SEE SHEET A0.1
- PAINT WALL (P-7 "EXTRA WHITE")
- NEW MARLITE
- NEW CHAIR RAIL TO MATCH EXISTING.
- HEADER (HAZE) PAINT HEADER (HAZE)
- COLUMN W/ SAFETY PAD - (P-1) PAINT ALL SIDES OF COLUMN (P-1 "HOLLYBERRY RED") INSTALL SAFETY PADS AS DIRECTED
- PLASTIC CORNER GUARDS - SEE DETAIL 20/A7.3
- STAINLESS STEEL CORNER GUARDS

WALL FINISH SPECIFICATIONS

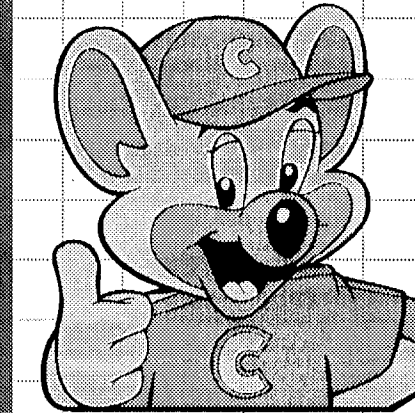
- PAINT FINISH:** ALL PAINTED WOOD AND DRYWALL TO HAVE SEMI-GLOSS FINISH. ALL PAINTED METAL SURFACES TO HAVE SEMI-GLOSS FINISH.
- PAINT SPECIFICATIONS:** FOR INTERIOR SHOULD BE CONSISTENT WITH ALL STORES. EXTERIOR PAINTS MAY VARY IN CASE OF SHOPPING CENTER IN-LINE LEASE SPACES. FOR A LIST OF QUALIFIED PAINTERS IN YOUR AREA CONTACT CEO MAINTENANCE. (PLEASE NOTE ALL FORMULAS ARE FOR ONE GALLON PAINT.)
- ALL PRODUCTS LISTED:** ARE AVAILABLE THRU SHERWIN WILLIAMS NATIONAL ACCOUNT MANAGER, BRENT HUCKLEBERRY (214-553-3940 - OFFICE) - D-FW PC ARCHITECTURAL PRODUCTS REP, MARK GIROUARD (STORE 214-821-9400, 214-632-2847 VM)
- P-1 HOLLYBERRY RED:** METAL PRIMER - SW KEN KROMICK UNIVERSAL PRIMER, B50Z SERIES. METAL PAINT - CUSTOM FORMULA: BASE - SW INDUSTRIAL ENAMEL SAFETY RED - B54R38 TINTED TO THE FOLLOWING: 844 COLORANTS - QV-40, QR-32, TW-16 THESE COLORANTS ARE 844 COLORANTS THAT ARE AVAILABLE AT SHERWIN-WILLIAMS COMMERCIAL STORES. EXTERIOR SUBSTRATES (STUCCO, DRYVIT, AND METALS) BASE - EXTERIOR ACCENTS LATEX SEMI-GLOSS MATCHED TO HOLLYBERRY RED.
- P-2 WHITE WOOL SW1354** - USED ON UPPER WALLS, FIRE EXIT DOORS AND FRAMES. DRYWALL TEXTURE - MEDIUM ORANGE PEEL (VERIFY APPROVAL) DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B20W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SEMI-GLOSS ENAMEL. (TWO COATS) NOTE: ON FIRE EXIT DOORS AND FRAMES PAINT - WHITE WOOL SW1354 TINTED IN DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (ONLY IN CASES OF RUST OR SLICK SURFACE SCUFF SAND AND USE KEN KROMICK UNIVERSAL PRIMER, B50Z SERIES.)
- P-3 WINDSOR GRAY SW1040** USED ON INTERIOR DOOR FRAMES PAINT - DTM ACRYLIC SEMI-GLOSS ENAMEL, B66-200 SERIES. (SCUFF SAND AND PRIMER ONLY AS REQUIRED)
- P-4 CORSICAN PURPLE SW1825** - FOR ACCENT GYPSUM WALL. DRYWALL PRIMER - PREPRITE 200 LATEX WALL PRIMER, B28W200. DRYWALL PAINT - PROMAR 200 INTERIOR LATEX SATIN ENAMEL. (TWO COATS)
- P-5 FLAT BLACK** - USED ON INTERIOR BACK WALL OR ANIMATED SHOW PAINT - PROMAR 400 INTERIOR LATEX BLACK, B30B400 SERIES.
- P-6 LATTE SW6108** - RESTROOM WALLS PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
- P-7 EXTRA WHITE SW7006** - KITCHEN WALLS NOT TO RECEIVE FRP & SHELVEY / KITCHEN DOORS / FRAMES PRIMER - SW PREPRITE 200 LATEX WALL PRIMER, B28W200. PAINT - SW PROMAR 200 LATEX SEMI-GLOSS ENAMEL, B31W200 SERIES. (TWO COATS)
- ST-1 - INTERIOR OAK STAIN (USED ON CHAIR RAIL, SILLS & MISC.)** 1ST COAT - SHERWIN WILLIAMS SHERWOOD WIPING STAIN 32-164-126, GRN 18 YEL 8 DEEP GOLD, 18 BAC COLOR ORDER #1936-0073219 2ND COAT - SHERWIN WILLIAMSSHER-WOOD VINYL SEALER 24% - T67F3. 3RD COAT - SHERWIN WILLIAMS SHER-WOOD CAB- ACRYLIC LACQUER, T57C15 4TH COAT - SAME AS THIRD COAT.
- W-2 F.R.P. PANELS** - 0.9 THICK EMBOSSED FIBERGLASS REINFORCED PANELS - KEMLITE - FRP WHITE.
- W-4 MARLITE PANELS** - 1/4" MARLITE NO. 5446-S2V "MORNING HAZE"
- W-5 MARLITE PANELS (DISPLAY WALL)** - 1/4" MARLITE NO. 2764 "CRYSTAL GRAY"

WALL FINISH NOTES

- PROVIDE STAINLESS STEEL CORNER GUARDS AT KITCHEN AREA AS INDICATED ON PLAN 01/K1.0.
- REFER TO DRAWING A9.2 FOR TOILET ROOM FINISH INFORMATION AND SPECIFICATIONS.
- SEE DRAWINGS A5.0 AND A5.1 FOR INTERIOR ELEVATIONS.



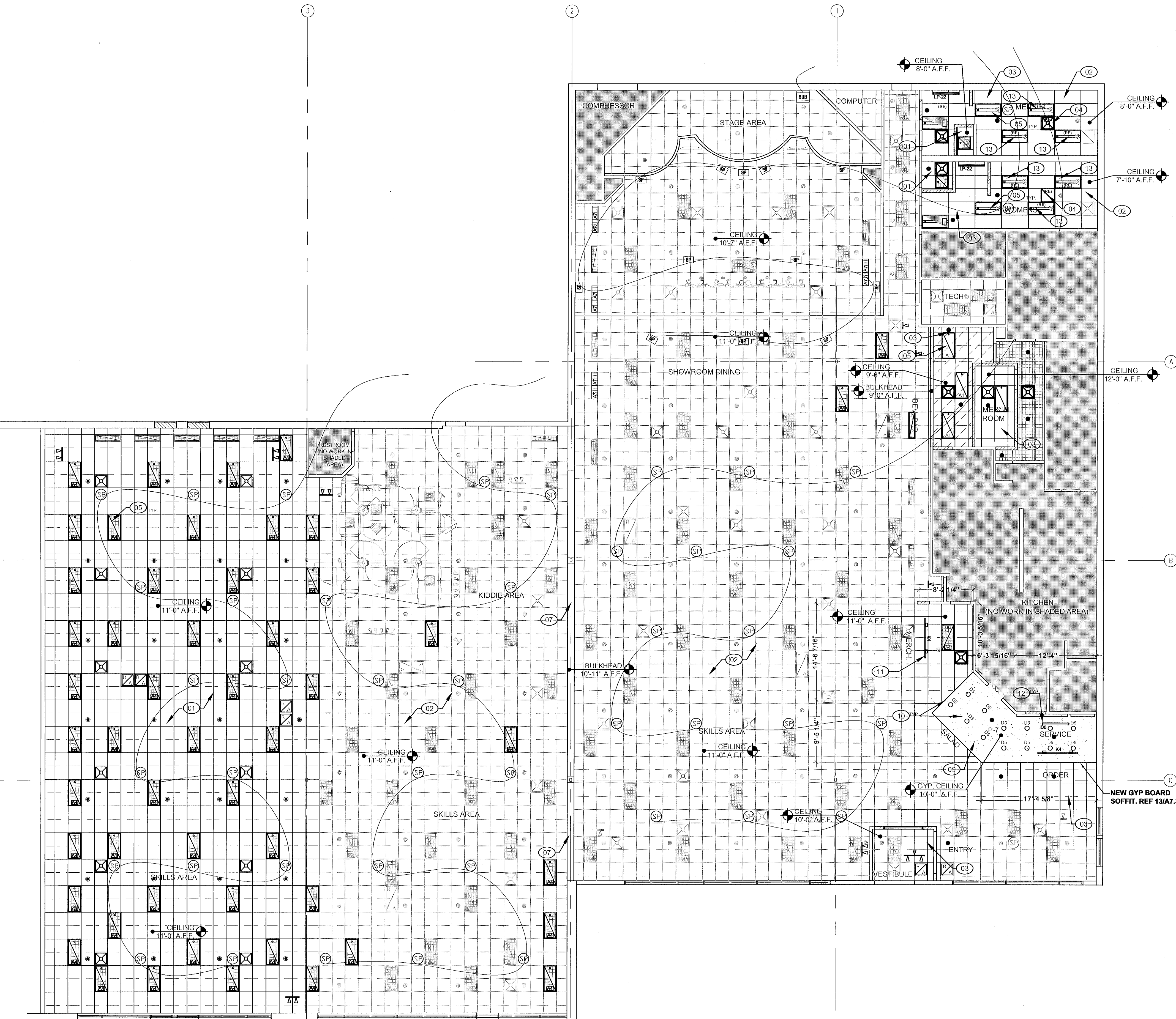
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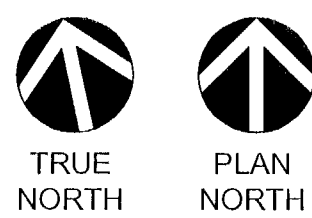
REV	DATE	DESCRIPTION
1	10/1/01	PROJECT NO. 101301
2	10/1/01	DESIGN BY: JH
3	10/1/01	CHECKED BY: JCL
4	10/1/01	ISSUE DATE: 03/11/11
5	10/1/01	WALL FINISH PLAN

A2.1



01 REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"



REFLECTED CEILING KEYNOTES

EXAMPLE: A3.24 = (24)

- A3.01 NEW CEILING TILE & GRID:** PROVIDE AND INSTALL NEW CEILING TILE (CORTEGA TO MATCH EXISTING) WITH NEW XL 15/16" EXPOSED TEE GRID SYSTEM TO MATCH EXISTING GRID LAYOUT.
- A3.02 EXISTING CEILING TILE & GRID:** TO REMAIN, REPLACE TILES AS NECESSARY.
- A3.03 NEW CEILING GRID AND TILE:** G.C. TO INSTALL NEW CEILING GRID AND TILE. REFERENCE HATCH FOR CEILING TILE AND GRID TYPE.
- A3.04 RELOCATED HVAC:** EXISTING HVAC TO BE RELOCATED AT SPECIFIED LOCATION.
- A3.05 NEW LIGHTING:** NEW 2'x4' LAY IN FLOURESCENT FIXTURES.
- A3.06 NEW HVAC:** NEW HVAC DIFFUSERS.
- A3.07 HEADER:** EXISTING HEADER TO BE RAISED TO MATCH EXISTING SURROUNDING CEILING HEIGHT (11'-0").
- A3.08 RELOCATED FIRE SAFETY EQUIPMENT:** G.C. TO RELOCATE SPECIFIED EXISTING FIRE SAFETY EQUIPMENT.
- A3.09 NEW GYP. BOARD CEILING:** G.C. TO INSTALL NEW GYP. BOARD CEILING.
- A3.10 NEW LIGHTING:** G.C. TO INSTALL NEW 8" WALL WASH DOWNLIGHT.
- A3.11 NEW TRAC LIGHTING:** G.C. TO INSTALL NEW TRACK MOUNTED.
- A3.12 NEW DIFFUSERS:** G.C. TO INSTALL NEW DIFFUSERS. EXISTING DUCTWORK IS TO BE REWORKED TO ACCOMMODATE NEW SLOT DIFFUSERS.
- A3.13 RELOCATED LIGHTING:** G.C. TO RELOCATE EXISTING FLORECENT LIGHTING TO SPECIFIED LOCATION.

RCP GENERAL NOTES

- NO FIXTURES, GRILLES, SPEAKERS, SPRINKLER HEADS, ETC. SHALL TOUCH THE CEILING T'S OR SHADOW LINE; CENTER IN PANEL.
- PAINT ALL GRILLES AND RECESSED SPEAKERS TO MATCH CEILING GRID.
- ALL SPEAKER WIRE SHALL HOME RUN TO CONTROL ROOM RACK. REF. ELEC. DWGS. FOR CONNECTIONS.
- EXIT SIGNAGE TO BE INSTALLED PER OSSC 1011.
- CEILING GRID INSTALLATION SHALL BE PER SECTION 9.6 OF ASCE 7-02 AND CISCA GUIDELINES FOR SEISMIC ZONES 3-4.
- REFER TO DETAIL 06/A7.4 FOR TYPICAL LIGHT BRACING REQUIREMENTS.
- REFER TO DETAIL 09/A7.4 FOR CEILING LATERAL TIE REQUIREMENTS.
- G.C. IS RESPONSIBLE FOR COORDINATION AND VERIFICATION OF POWER FOR SIGNAGE / AWNINGS PRIOR TO INSTALLATION
- ALL NON-RATED PARTITIONS TO TERMINATE 6" ABOVE FINISHED CEILING. SEE WALL TYPES, DWG. A1.0 FOR ADDITIONAL INFORMATION.
- ACOUSTICAL CEILING GRID SHALL BE CENTERED IN ROOM U.N.O.
- REFER TO DETAIL 03/A7.4 FOR FIRE SPRINKLER PIPING SUPPORT DETAIL.
- COORDINATE ALL MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS THAT ARE SUPPORTED BY INTERFACE W/ CEILING SYSTEMS.
- ALL INSULATION WIRING AND OTHER CONSTRUCTION ITEMS SHALL BE NON-COMBUSTIBLE AND RATED AS REQUIRED BY CODE FOR WORK IN PLENUM SPACES WHERE INDICATED.

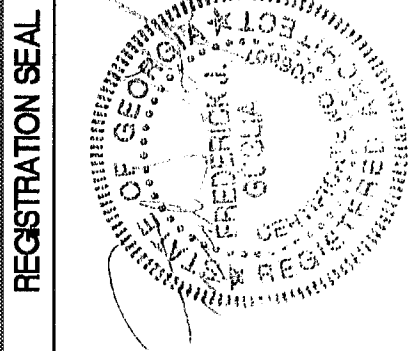
REFLECTED CEILING PLAN LEGEND

ACOUSTICAL LAY-IN CEILING SPECIFICATIONS	
09510 ACOUSTICAL LAY-IN CEILINGS	
2X4 LAY-IN ACOUSTICAL TILE (LT-1)	LT-1 ARMSTRONG #1761HA, FINE FISSURED SECOND LOOK II 24" x 48" x 3/4" WITH XL HA 15/16" EXPOSED TEE SYSTEM (COLOR: HAZE)
2X4 VINYL FACED LAY-IN TILE (LT-2)	LT-2 ARMSTRONG #670 VINYL FACED G.L.P. 24" x 48" x 1/2" WITH PRELUDE XL WHITE GRID
2X4 VINYL FACED LAY-IN TILE (LT-3)	LT-3 LT-2 CUSTOM MATCHED TO HAZE ARMSTRONG CEILING TILE AND GRID (LT-1). GRID TO MATCH CEILING TILE COLOR IN PUBLIC AREAS. PAINT: B30 W401, N1-2Y, P1-4

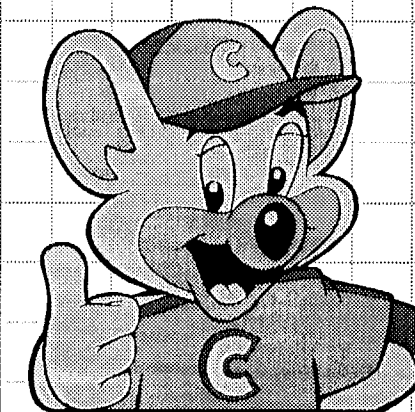
RE = EXISTING ITEM TO BE RELOCATED

TYPE A1 - 2'x4' LAY-IN FLUORESCENT FIXTURE W/ ACRYLIC LENS	TYPE B1 - 2'x4' LAY-IN FLUORESCENT FIXTURE W/ ACRYLIC LENS
TYPE A4 - 2'x4' LAY-IN FLUORESCENT FIXTURE W/ EGGRATE GRILLE	TYPE B4 - 2'x4' LAY-IN FLUORESCENT FIXTURE W/ EGGRATE GRILLE
TYPE A4d - 2'x4' LAY-IN FLUORESCENT FIXTURE W/ EGGRATE GRILLE - SUPPLY W/ RECESSED DRYWALL KIT	TYPE B5 - 2'x4' LAY-IN DIRECT / INDIRECT FLUORESCENT FIXTURE
TYPE A8 - 2'x4' LAY-IN DIRECT / INDIRECT FLUORESCENT FIXTURE	TYPE A7 - 1'x2' WALL WASHER
TYPE A5 - 1'x4' WALL WASHER	TYPE K1 - SPOT LIGHT W/ MONOPOINT MOUNT
TYPE A6 - 2'x2' LAY-IN FLUORESCENT FIXTURE W/ EGGRATE GRILLE	TYPE K1-2 - LIGHT TRACK (LENGTH AND NUMBER OF HEADS AS SHOWN ON DRAWING)
TYPE C1 - EXTERIOR WALL SCONCE - COLOR RED (MOUNT 7'-0" A.F.F.)	TYPE K4 - MERCHANDISE LIGHT MOUNTED 3'-0" AWAY FROM WALL
TYPE C2 - EXTERIOR DIAMOND LIGHT FIXTURE - COLOR RED (MOUNT 7'-0" A.F.F.)	TYPE WS1 (LP-22) - RESTROOM VANITY WALL LIGHT
TYPE D5 - RECESSED COMPACT FLOURESCENT DOWNLIGHT	TYPE X1 - DUAL-LIGHT EXIT LIGHT FIXTURE W/ EMERGENCY BACKUP
TYPE E1 - EXTERIOR WALL PACK - COLOR BRONZE	TYPE X3 - DUAL-LIGHT SURFACE MOUNTED EMERGENCY LIGHT FIXTURE (CEILING MOUNTED)
TYPE F4 - 4' x 2' BULB UTILITY FLUORESCENT STRIP LIGHT	EXHAUST FAN W/ GRILLE
SPEAKER (CEILING)	SUPPLY AIR GRILLE TO BE PAINTED (HAZE)
SPEAKER (BRACKET MOUNTED)	RETURN AIR GRILLE TO BE PAINTED (HAZE)
FIRE STROBE / HORN	NEW SPEAKER
FIRE SPRINKLER	NEW SHOWROOM SPEAKER
SMOKE DETECTOR	
CEILING OUTLET	

NOTE: REFER TO MECH. AND ELEC. DRAWINGS FOR FIXTURE SPECIFICATIONS.



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RICHMOND PLAZA SHOPPING CENTER
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AUGUSTA, GA 30909
STORE# 939

REV	DATE	DESCRIPTION
PROJECT NO. 101301	DATE	DESCRIPTION
DESIGNED BY: JH	CHECKED BY: RK	ISSUE DATE: 03/11/11

A3.0

REFLECTED CEILING PLAN



EXAMPLE: A3.1.24 = 24

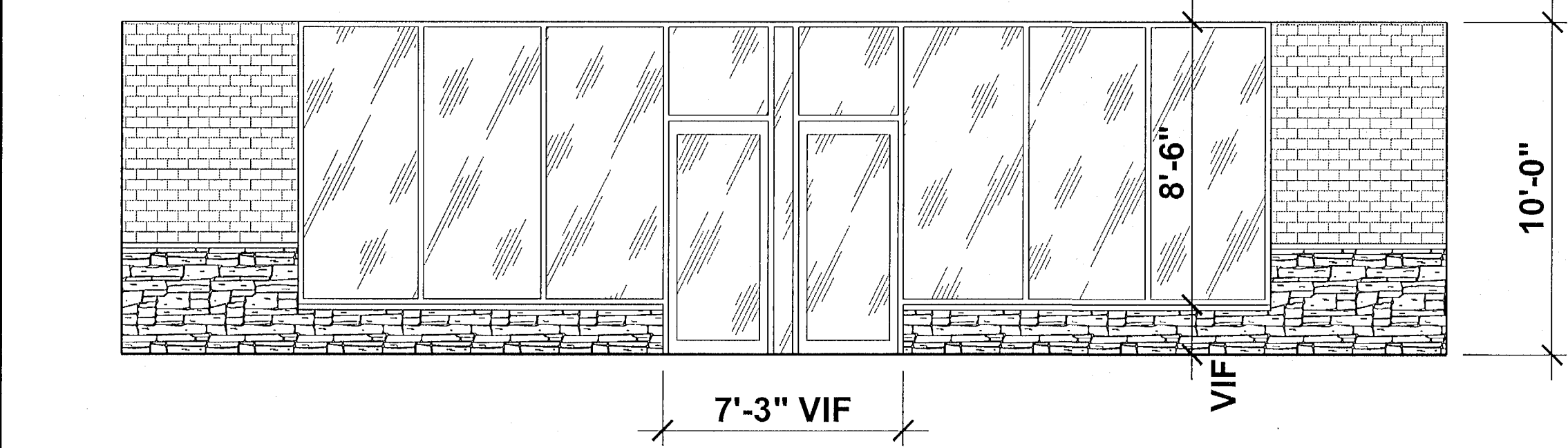
1. THE GENERAL CONTRACTOR SHALL SET ALL OFFER-PROVIDED EQUIPMENT ON ROOF.
2. VERIFY & COORDINATE DUCT CURB AND ROOF PENETRATION LOCATIONS; SEE MECHANICAL / ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND COORDINATION.
3. VERIFY LOCATIONS OF ALL HVAC UNIT - ELECTRICAL, GAS AND CONDENSATE DRAIN PENETRATIONS WITH UNITS' MANUFACTURER.
4. PLUMBING VENTS OR EXHAUST UNITS ARE NOT ALLOWED WITHIN 10'-0" OF AIR INTAKES OR 5'-0" OF EXTERIOR WALLS.
5. ALL ROOF PENETRATIONS SHALL BE LOCATED 3'-0" OR MORE FROM FLOW LINES.
6. COORDINATE WITH STRUCTURAL DRAWINGS FOR ROOF STRUCTURE BEARING HEIGHTS. ROOF SLOPES SHALL NOT BE LESS THAN 1/4" PER FOOT.
7. ALL SHEET METAL FLASHING TO COMPLY WITH THE "ARCHITECTURAL SHEET METAL MANUAL", 2003 EDITION AS PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA).
8. ROOFING CONTRACTOR SHALL FURNISH & INSTALL ALL REGLETS.
9. ALL SHEET METAL FLASHING AND CAPS EXPOSED TO THE PUBLIC SHALL BE PAINTED OR PREFINISHED TO MATCH ADJACENT FINISH COLOR. SEE BUILDING ELEVATION FOR COLOR SPECIFICATIONS. ALL OTHER FLASHING TO BE GALVANIZED.
10. ALL GAS LINES TO BE LOCATED ON ROOF. - PROVIDE GAS PIPING SUPPORTS AS DETAILED ON DRAWING A7.1.
11. PROVIDE TPO TRAFFIC PADS AROUND EQUIPMENT PER SPECIFICATIONS AND AS INDICATED.
12. TYPICAL ROOFING SYSTEM DETAILS BASED OFF OF THE 60 MIL. TPO ROOFING SYSTEM. REFER TO DRAWING A7.1 FOR DETAILS AND SPECIFICATIONS.
13. REFER TO DRAWING A7.1 FOR ALL ROOF SYSTEM DETAILS AND ACCESSORIES.
14. PROVIDE SPLASH BLOCKS @ ALL CONDENSATION DRAINS, TYPICAL.

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DRAWN BY:			
CHECKED BY:			
ISSUE DATE:			
03/11/11			
ROOF PLAN			

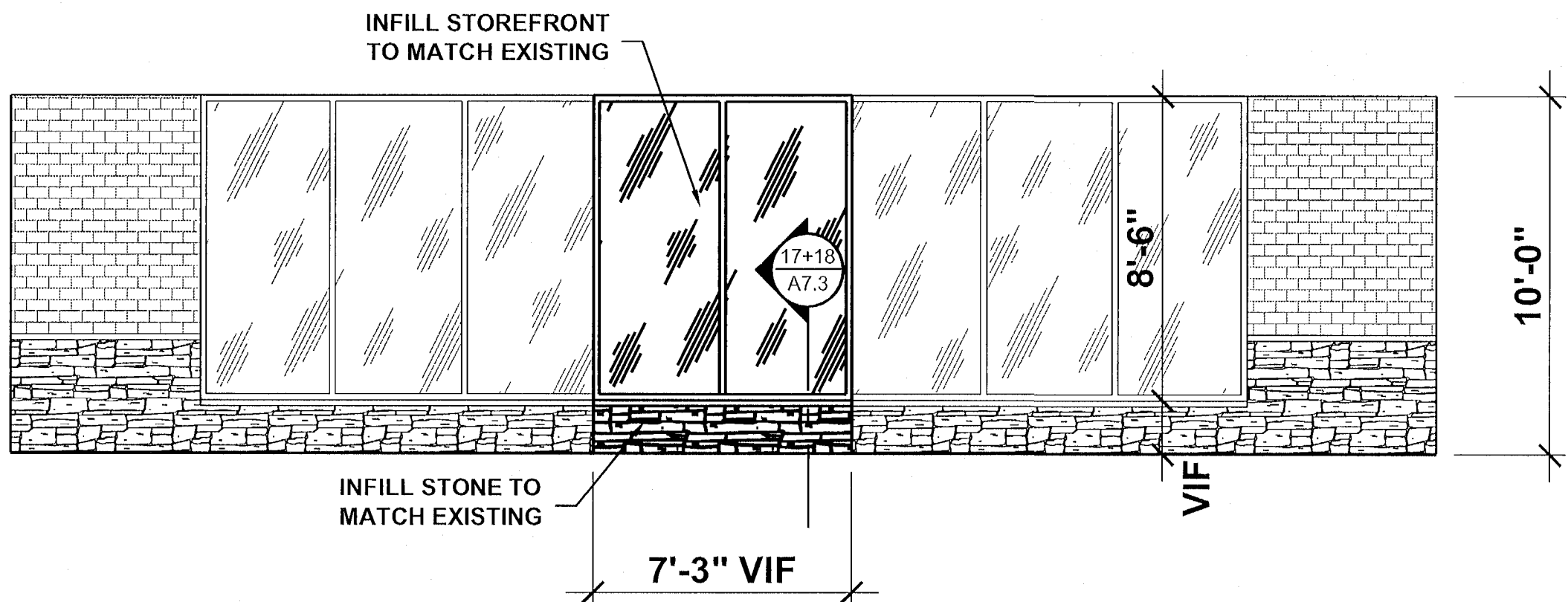
A3.1

ROOF PLAN



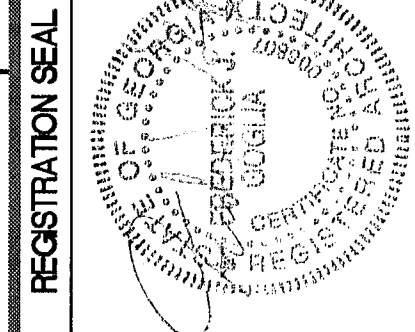
01 EXISTING ELEVATION

SCALE: 1/4" = 1'-0"

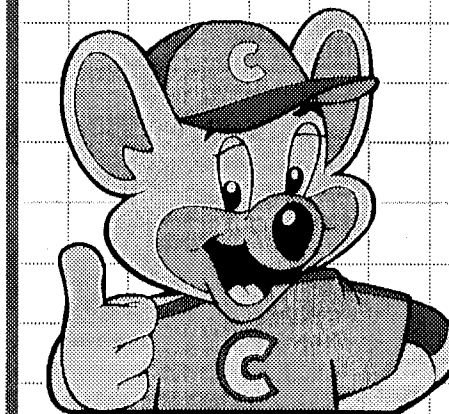


02 PROPOSED ELEVATION

SCALE: 1/4" = 1'-0"



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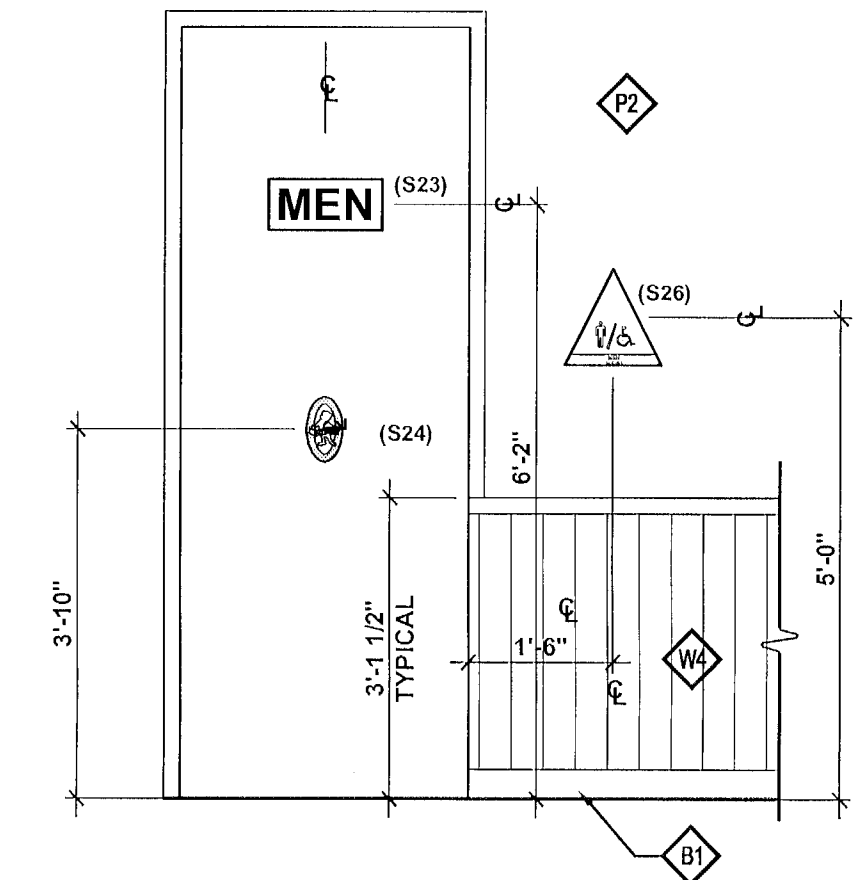


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DRAWN BY: JH			
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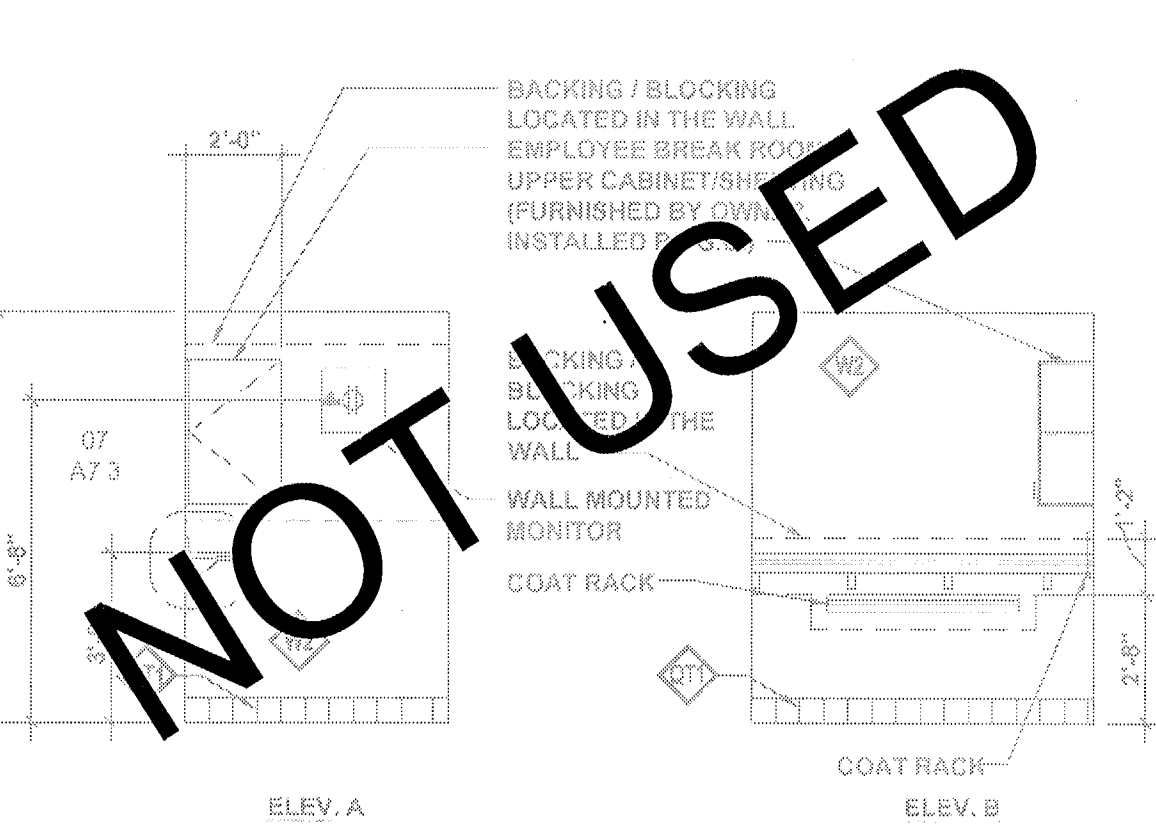
EXTERIOR ELEVATIONS

A4.0



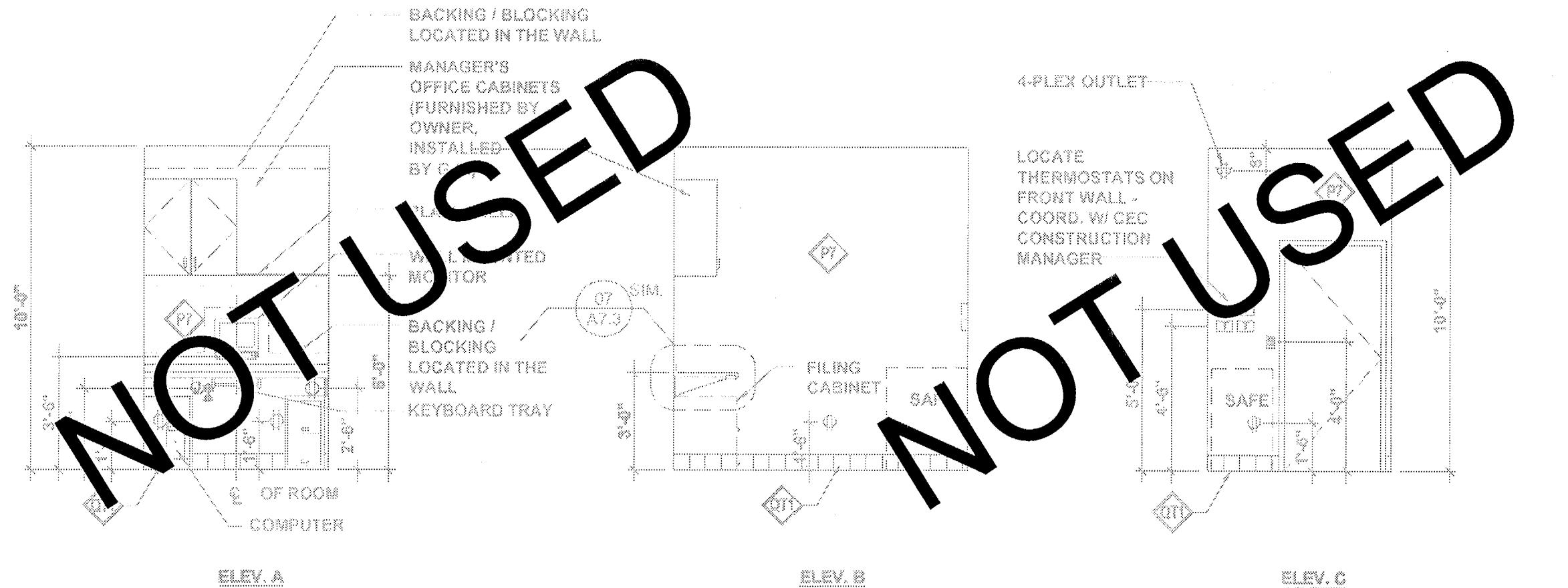
11 RESTROOM SIGNAGE ELEVATION

SCALE: 1/2" = 1'-0"



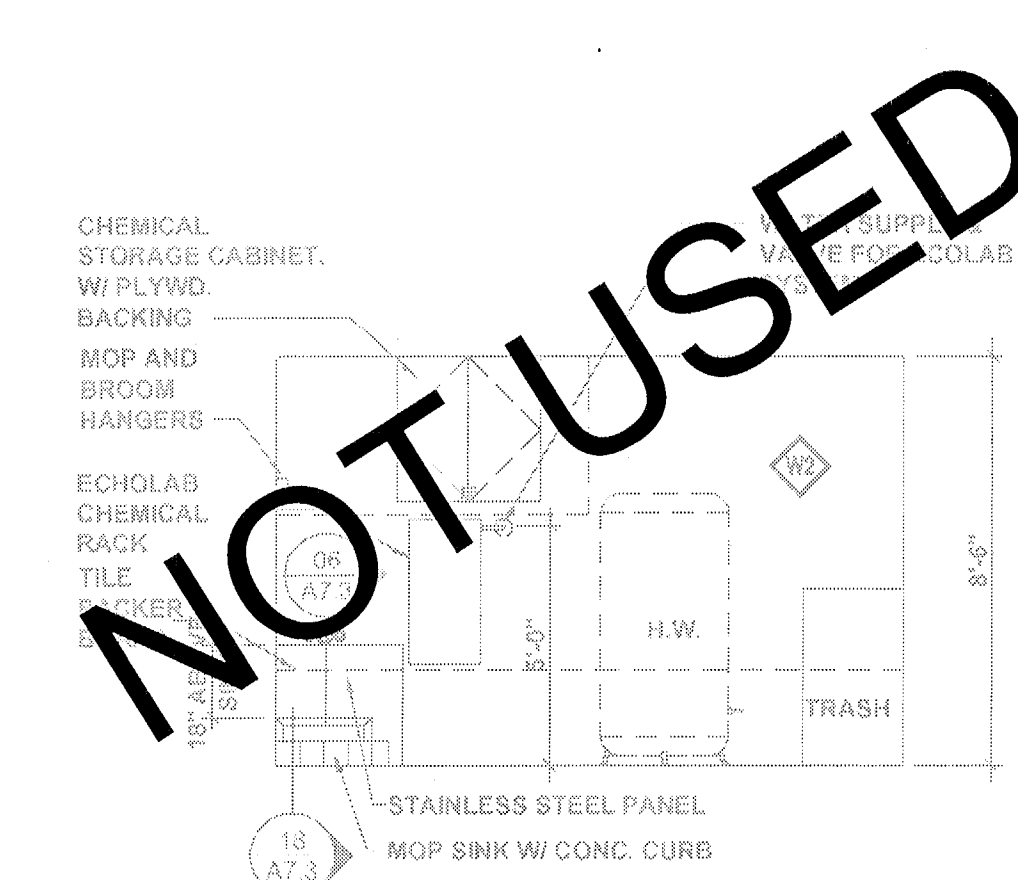
12 EMPLOYEE BREAK ROOM ELEVATIONS

SCALE: 1/4" = 1'-0"



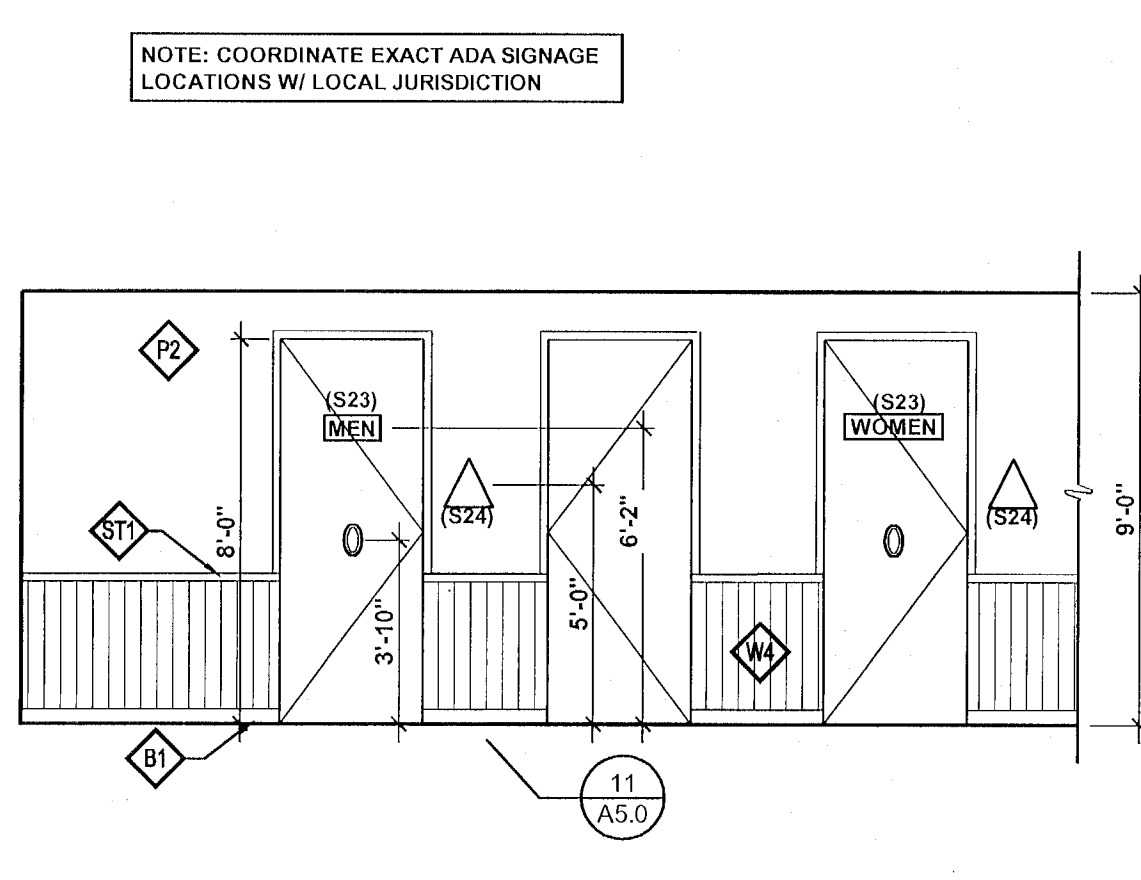
13 OFFICE ELEVATIONS

SCALE: 1/4" = 1'-0"



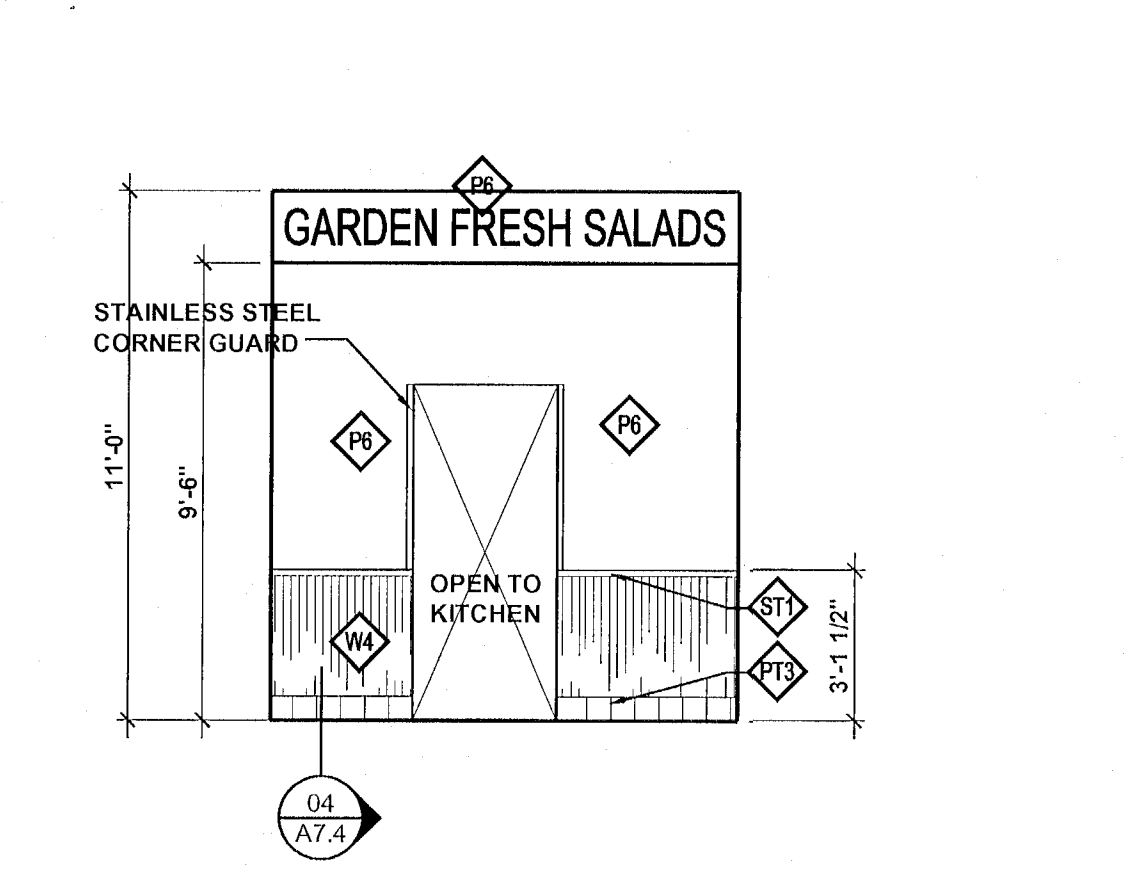
14 MOP SINK ELEVATION

SCALE: 1/4" = 1'-0"



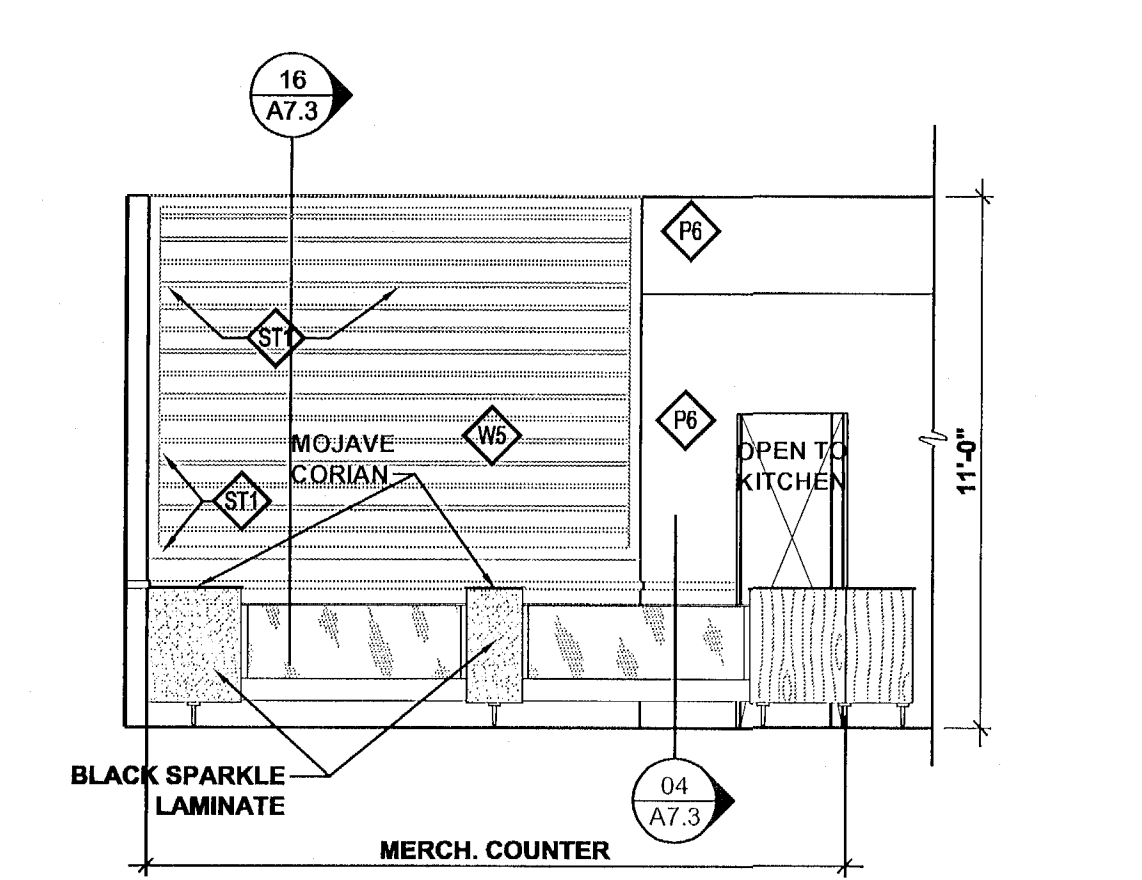
10 RESTROOM VESTIBULE ELEVATION

SCALE: 1/4" = 1'-0"



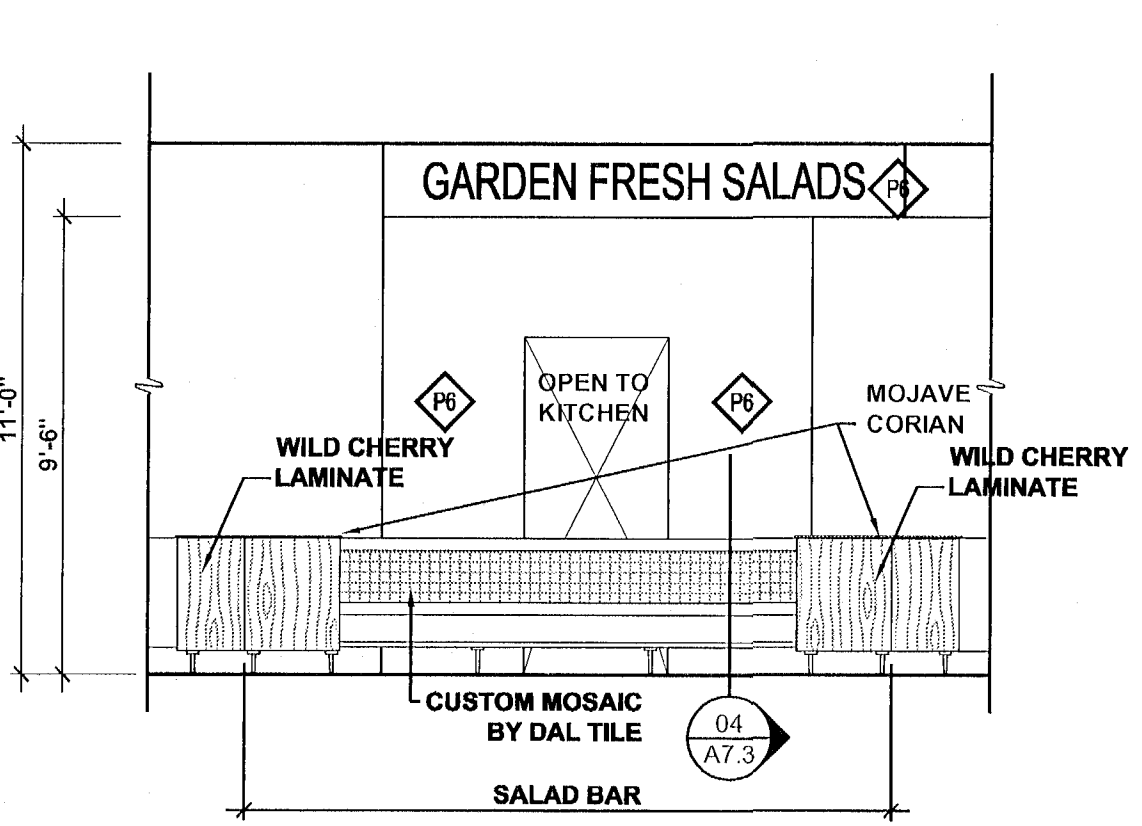
08 ELEVATION BEHIND SALAD BAR

SCALE: 1/4" = 1'-0"



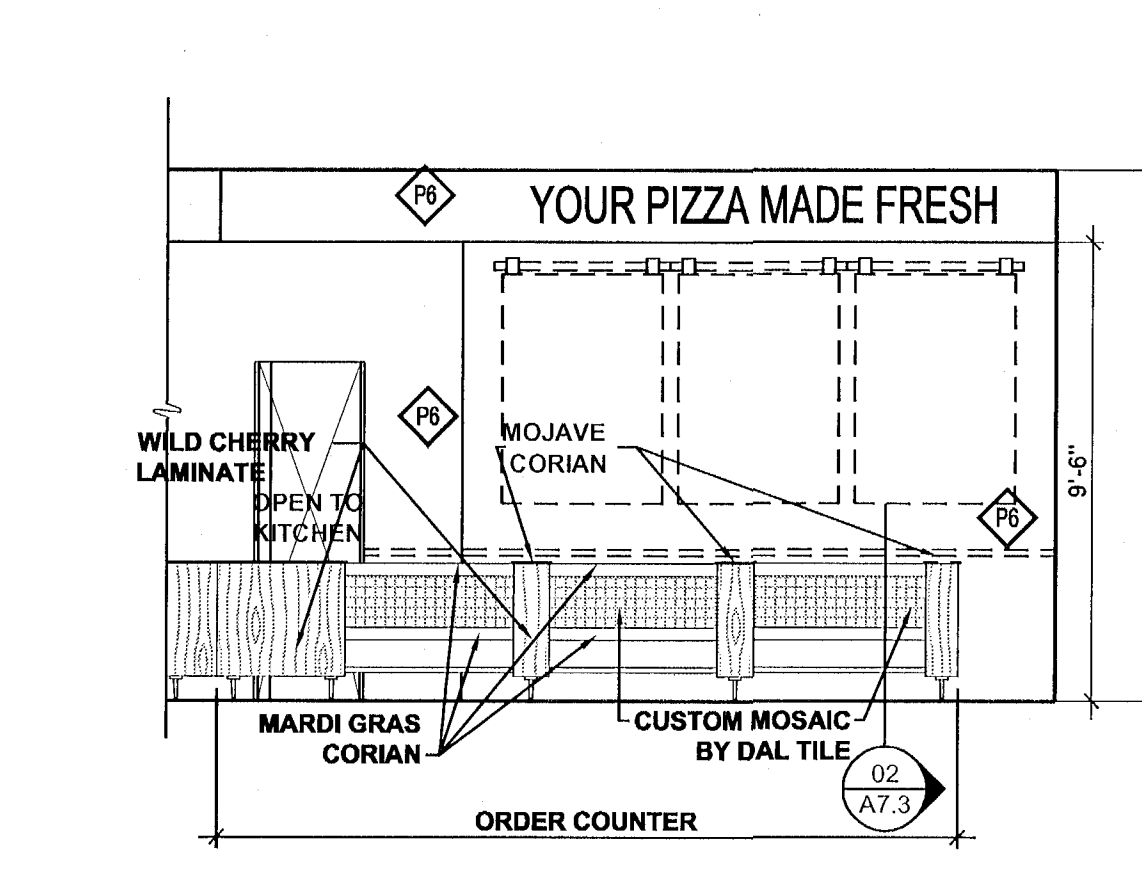
07 MERCH COUNTER ELEVATION

SCALE: 1/4" = 1'-0"



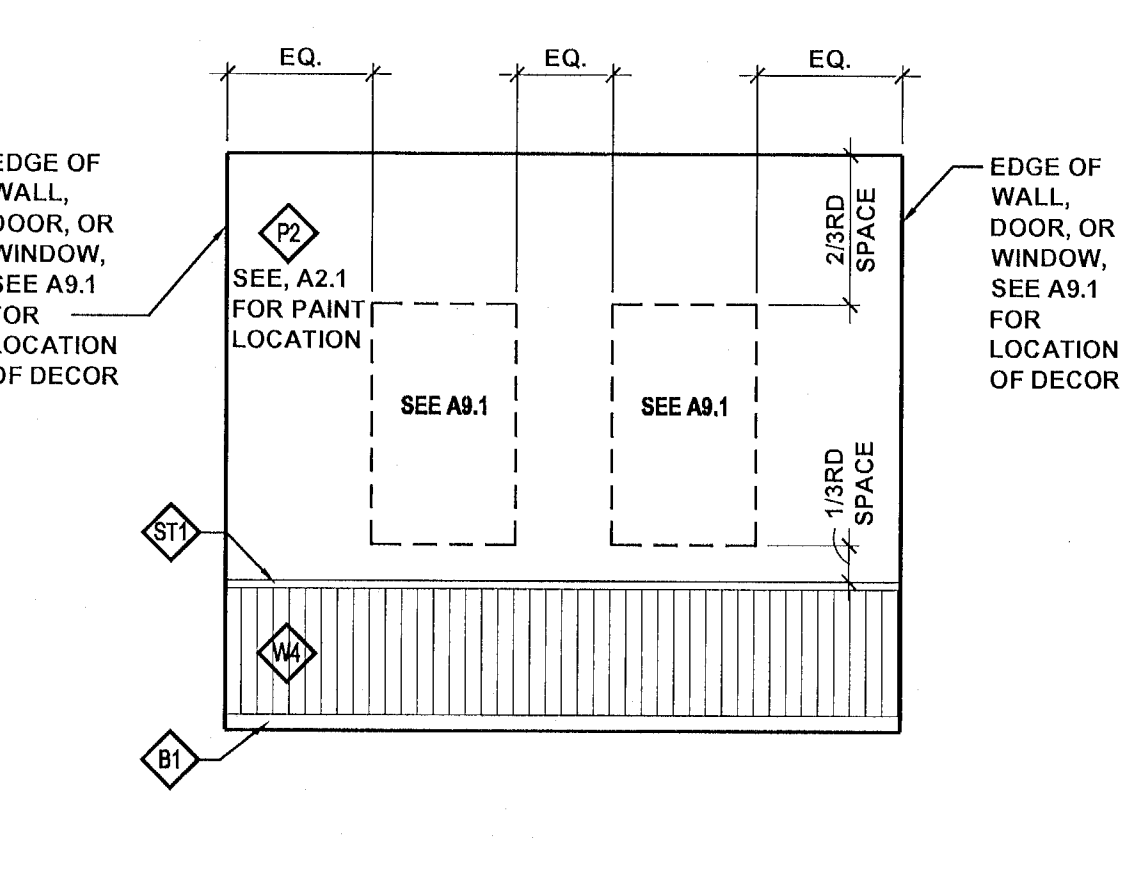
06 SALAD BAR ELEVATION

SCALE: 1/4" = 1'-0"



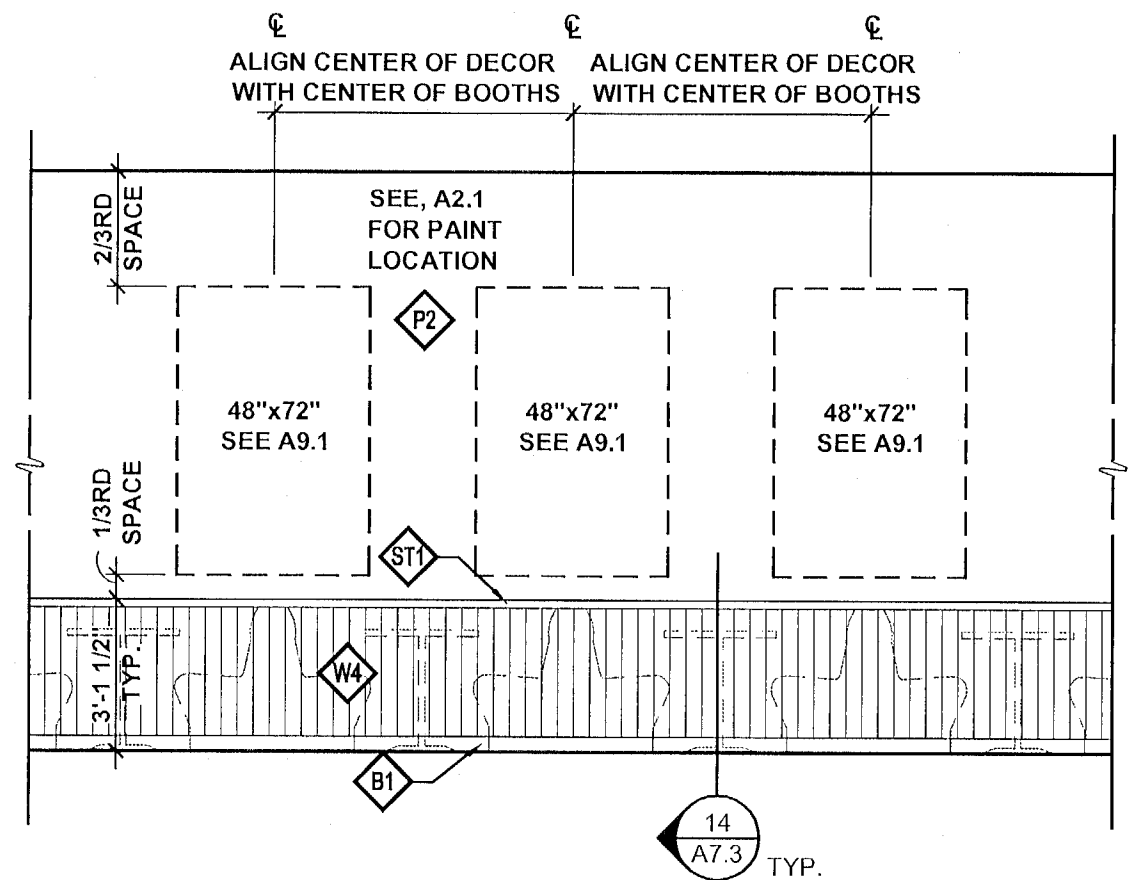
05 ORDER COUNTER ELEVATIONS

SCALE: 1/4" = 1'-0"



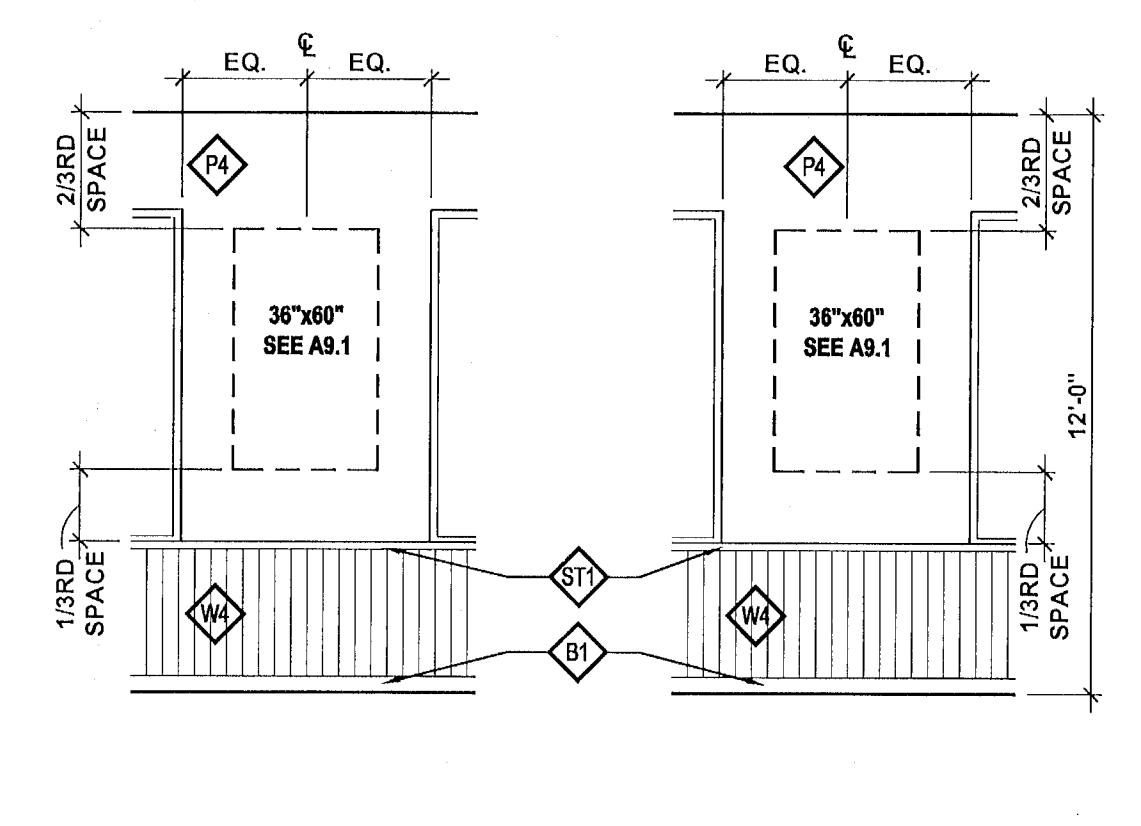
04 TYP. DECOR @ GAMES ELEVATION

SCALE: 1/4" = 1'-0"



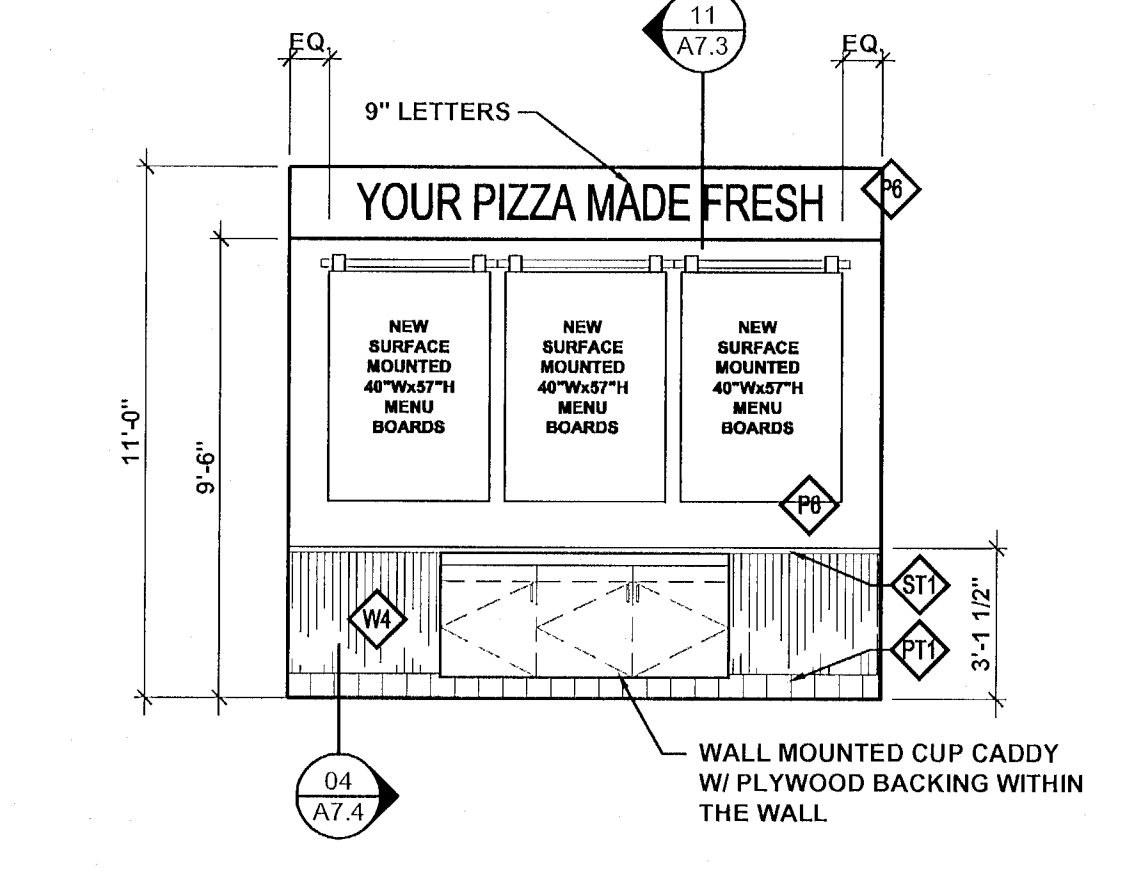
03 TYP. DECOR @ SHOWROOM ELEVATIONS

SCALE: 1/4" = 1'-0"



02 FRONT SKILLS WALL ELEVATIONS

SCALE: 1/4" = 1'-0"



01 ORDER COUNTER ELEVATIONS

SCALE: 1/4" = 1'-0"

WALL FINISH SPECIFICATIONS & NOTES

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4TH COAT - SAME AS THIRD COAT.
- W-2 FRP PANELS - 0.9 THICK EMBOSSED FIBERGLASS REINFORCED PANELS - KEMLITE - FRP WHITE.
- W-4 MARLITE PANELS - 1/4" MARLITE NO. 5446-S2V "MORNING HAZE"
- W-5 MARLITE PANELS (DISPLAY WALL) - 1/4" MARLITE NO. 2764 "CRYSTAL GRAY"

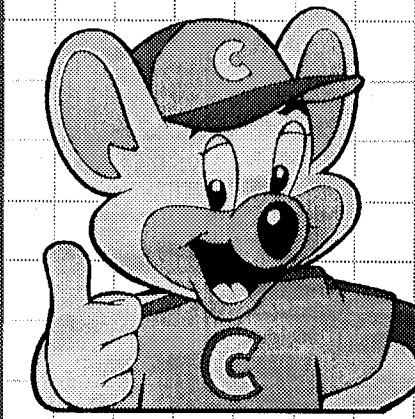
FINISH LEGEND

- PORCELAIN FLOOR TILE**
- PT-1: FLOOR TILE SIZE: 12" x 12" GROUT: MFGR. AMERICAN TILE PBG1925 "PEWTER" TILES: CC19CEC-12X12 GRANT1 ABR., CC19CB-6X12 GRANT1, CC19IC-1X6 GRANT1
 - PT-2: FLOOR TILE SIZE: 6" x 24" INTERCERAMIC FORESTLAND CYPRESS (OFFSET INSTALL FOR WOOD LOOK). BASE COVE: SHUTTER AHK 15125T50B, TUSCAN BRONZE. GROUT: MAPEI #7 - "CHOCOLATE" USE 1/16" GROUT LINES (VERIFY W/ PROJECT MANAGER)
 - QUARRY FLOOR TILE
 - QT-1: SMOOTH FINISH FLOOR TILE (USED IN DRY AREAS)
SIZE: 6" x 6" TILES: SUMMITVILLE SV100T-6X6 "RED" BASE: 6" HIGH COVE - SUMMITVILLE SV100Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"
 - QT-2: ABRASIVE FINISH FLOOR TILE (USED IN WET AREAS)
SIZE: 6" x 6" TILES: SUMMITVILLE SV100Q-6X6 "RED ABRASIVE" BASE: 6" HIGH COVE - SUMMITVILLE SV100Q 3565 GROUT: MFGR. PBG6025 "CHARCOAL"
 - CARPET FLOORING**
 - CPT-1: CARPET "CEC PASSION" AND BASE (BURKE #217 "CHARCOAL")
CARPET TO BE SUPPLIED BY THE OWNER, BASE TO BE SUPPLIED BY THE CONTRACTOR
 - CPT-2: INTERFACE (STYLE 62302040) DECO DIAGONAL TILE (COLOR 602391 ANTHRACITE) AND CHARCOAL BASE (VESTIBULE ONLY)
 - CPT-3: GRAND ENTRANCE WALK-OFF MAT: PEDITRED LP - ALUMINUM ENTRANCE GRID WITH VINYL CUSHION (RECESSED - TAPERED ANGLE FRAME)
 - CPT-4: CARPET INTERFACE FLOR CARPET SQUARES INSTALL W/ITACILE METHOD (NO GLUE). CARPET TO BE SUPPLIED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
 - VENDOR ITEM #: CUBIC COLOURS #174702
DESCRIPTION: CUSTOM SAMPLE COLOR #248360-003
BASE: BURKE #217 "CHARCOAL" - TO BE SUPPLIED & INSTALLED BY CONTRACTOR.
 - RESILIENT BASE**
 - R-1: 4" HIGH COVE - BURKE #217 - CHARCOAL
 - PAINT / STAIN FINISHES (SEE PAINT SPECIFICATIONS NOTE ABOVE)**
 - P-1: HOLLYBERRY RED
 - P-2: WHITE WOOL
 - P-3: WINDSOR GRAY
 - P-4: CORSIAN PURPLE
 - P-5: FLAT BLACK
 - P-6: LATTE
 - P-7: EXTRA WHITE
 - P-8: INTERIOR OAK - (HARVEST WHEAT NATURAL OAK)
 - WALL FINISHES / COVERINGS**
 - W-1: 0.9 THK EMBOSSED FIBERGLASS REINFORCED PANELS
KEMLITE - FRP WHITE
 - W-2: MORNING HAZE MARLITE (MARLITE 5446-S2 "MORNING HAZE")
 - W-3: DISPLAY WALL - NO. 2764 "CRYSTAL GREY"

- NOTES:**
- SEE DRAWING A2.1 & A9.1 FOR INTERIOR ELEVATION REFERENCE LOCATIONS.
 - SEE DRAWING A9.1 FOR DECORATION AND SIGNAGE SCHEDULES.
 - G.C. TO COORDINATE EXACT LOCATION OF BLOCKING / BACKING WITH CEC PROJECT MANAGER PRIOR TO INSTALLATION.

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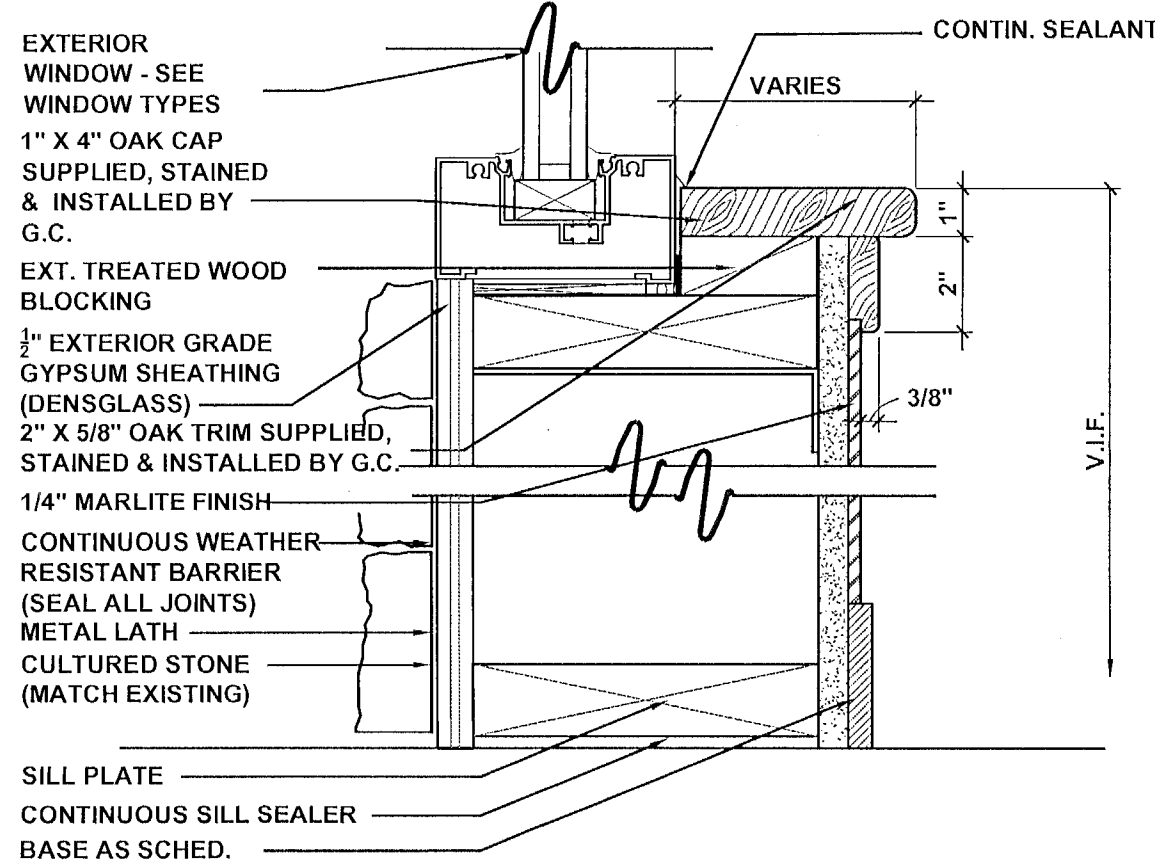
CHUCK CHEESE'S
RICHMOND PLAZA SHOPPING CENTER
3435 WRIGHTSBORO ROAD
AUGUSTA, GA 30909

STORE# 939

NAME	DESCRIPTION	REV	DATE
PROJECT NO. 101301	DRAWN BY: JH		
CHECKED BY: JCL			
ISSUE DATE:			
03/11/11			

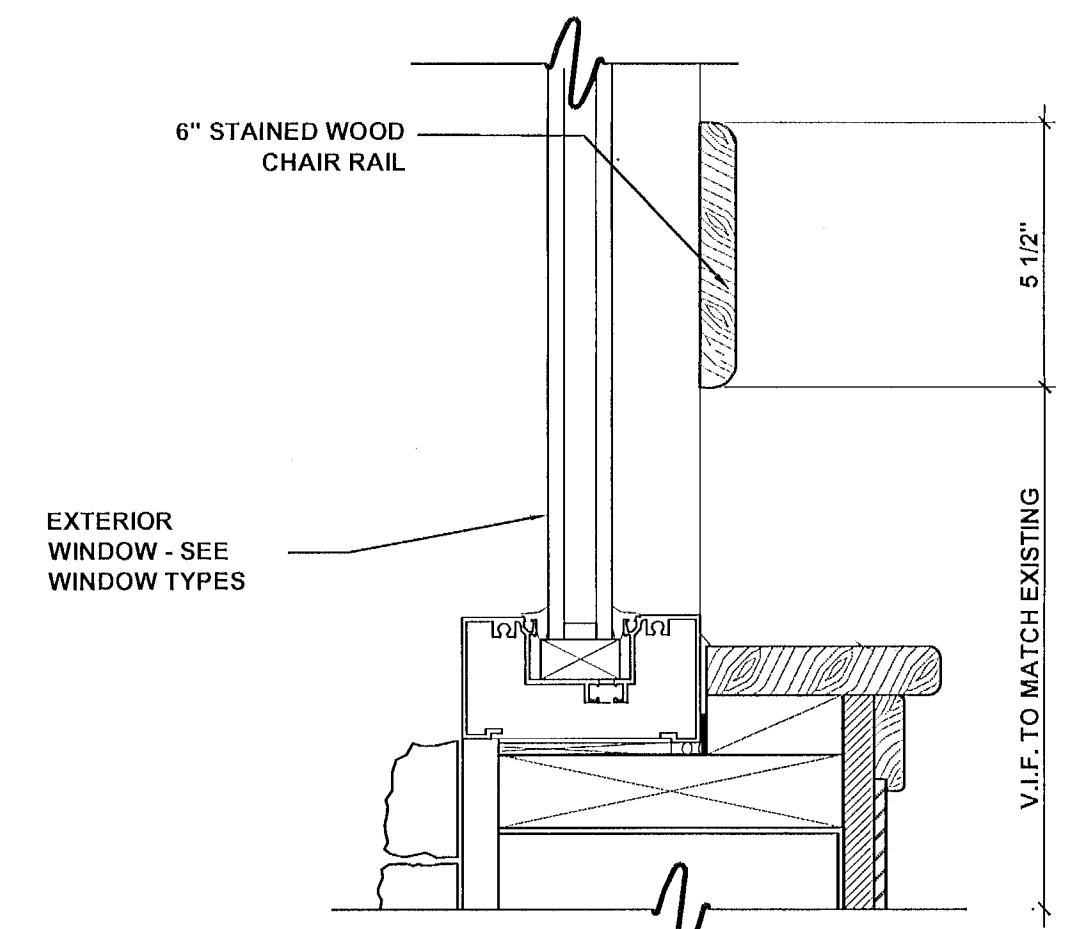
INTERIOR ELEVATIONS

A5.0



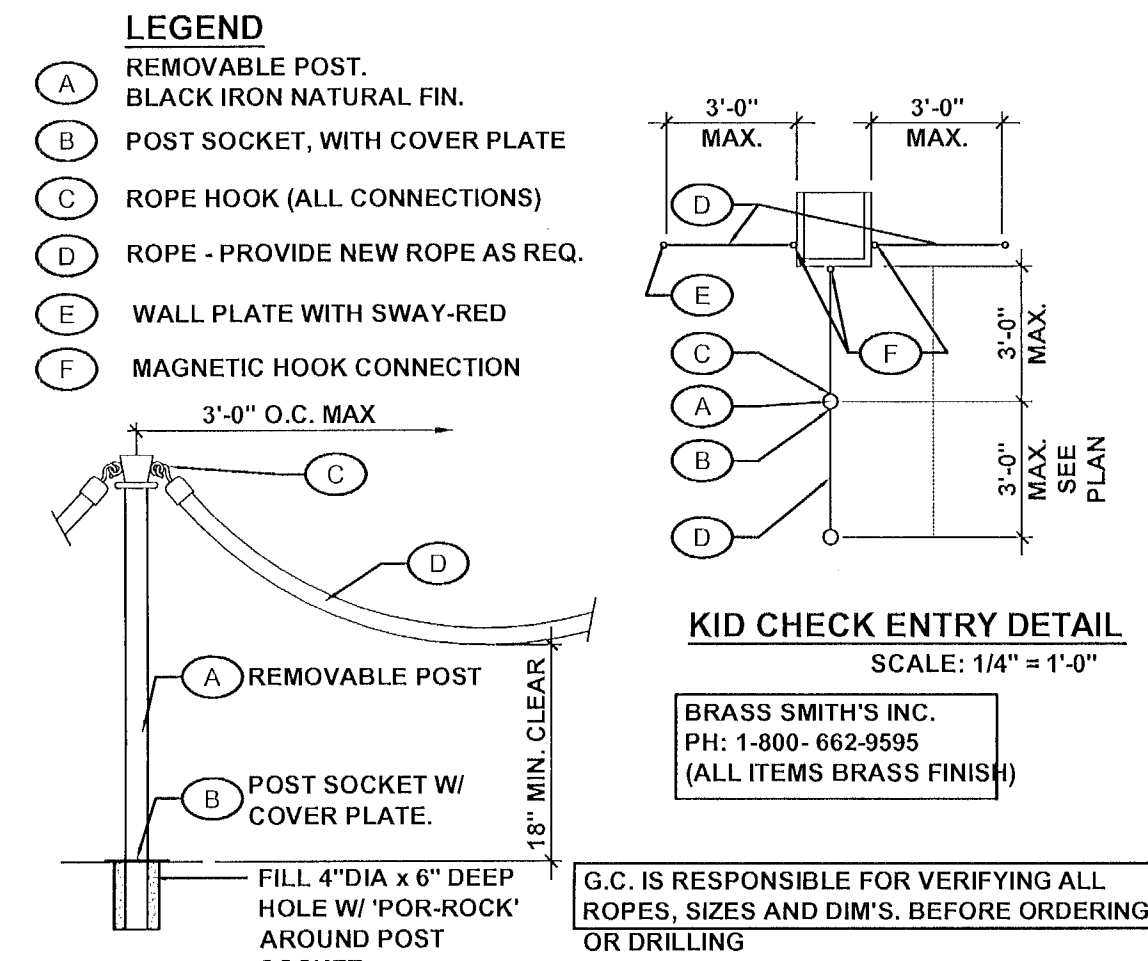
17 OAK CAP DETAIL AT WINDOW

SCALE: 3" = 1'-0"



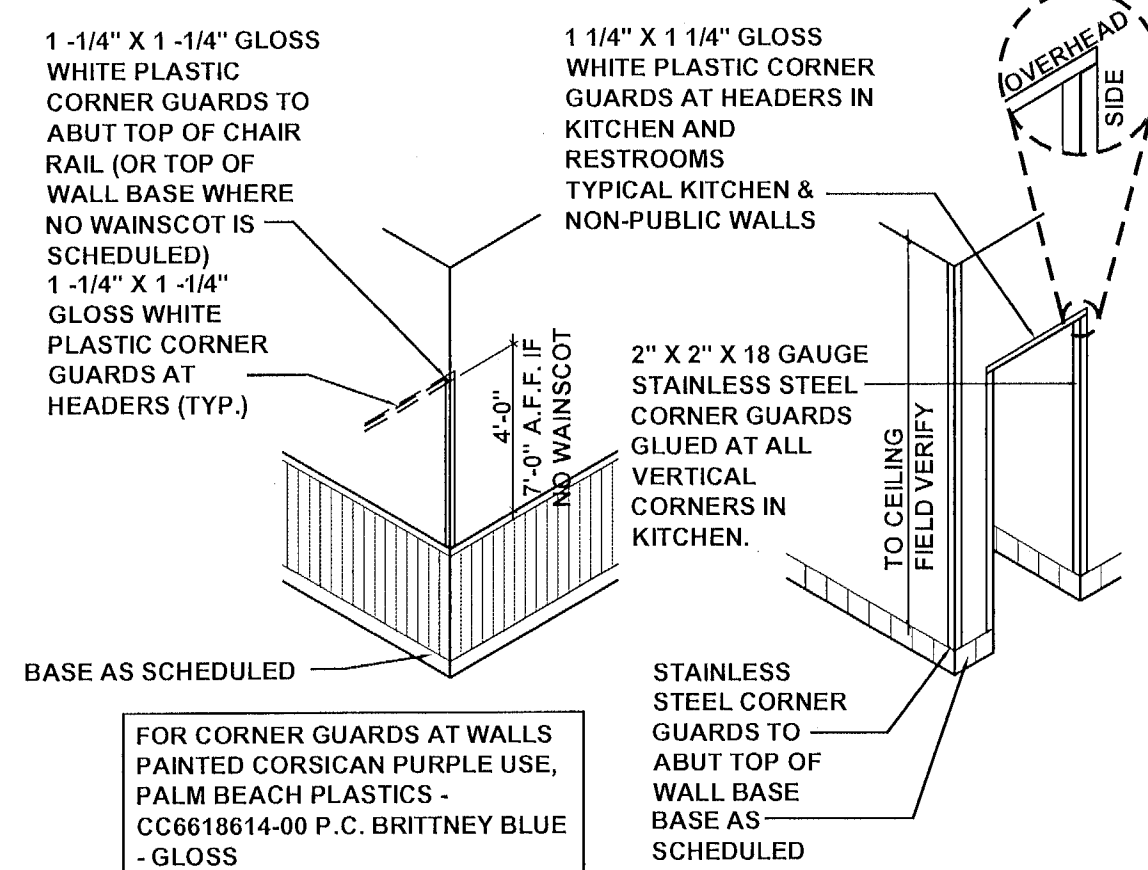
18 CHAIR RAIL AT EXT. WINDOW

SCALE: 3" = 1'-0"



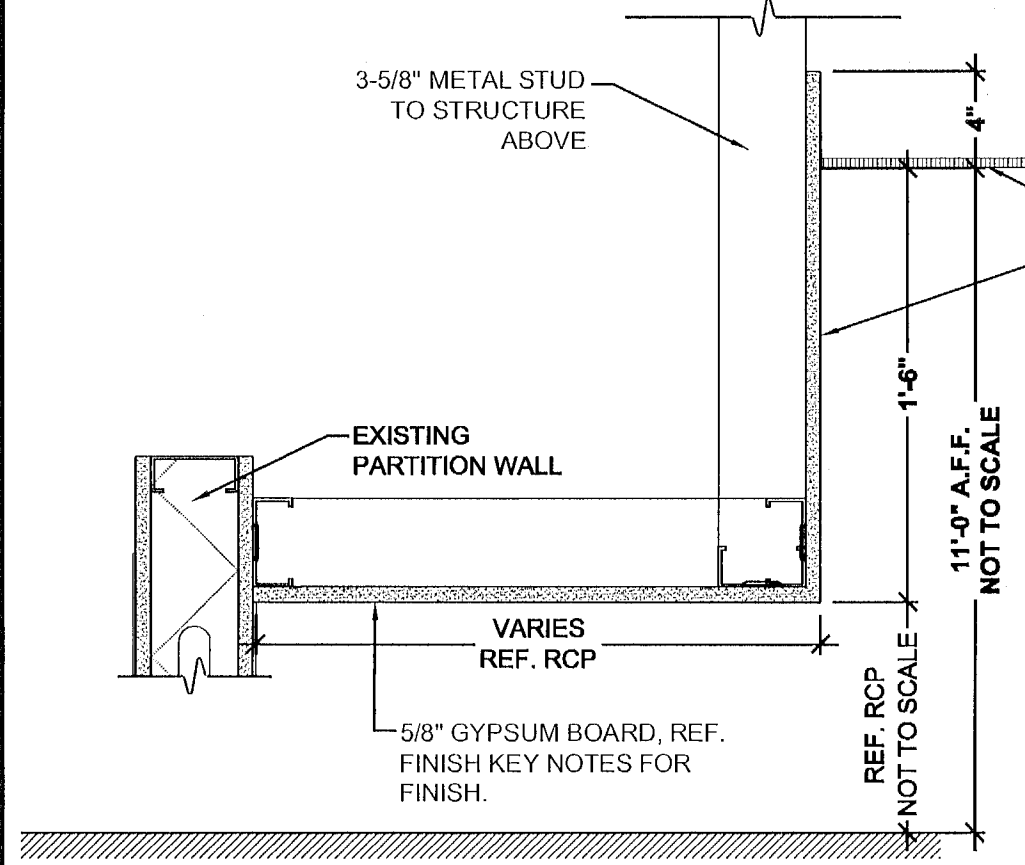
19 KID CHECK STANCHION DETAIL

SCALE: 3/4" = 1'-0"



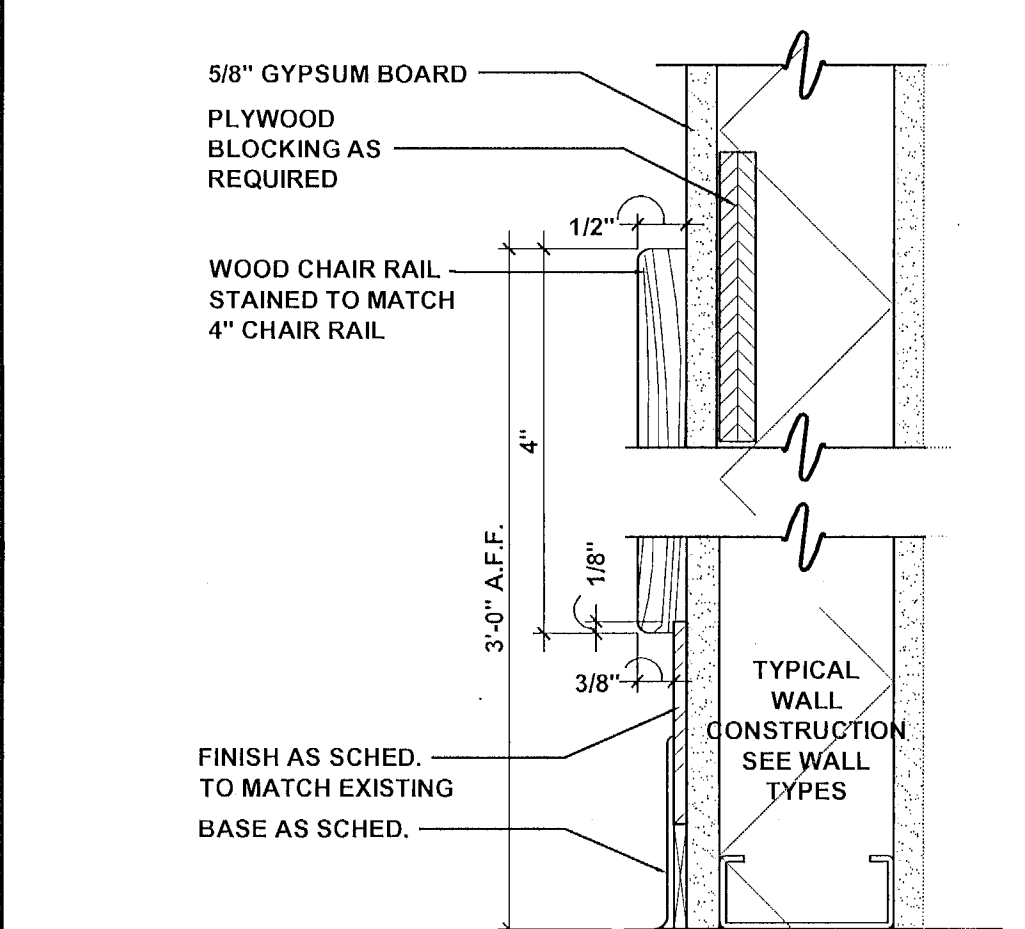
20 CORNER GUARD DETAIL

SCALE: 1/4" = 1'-0"



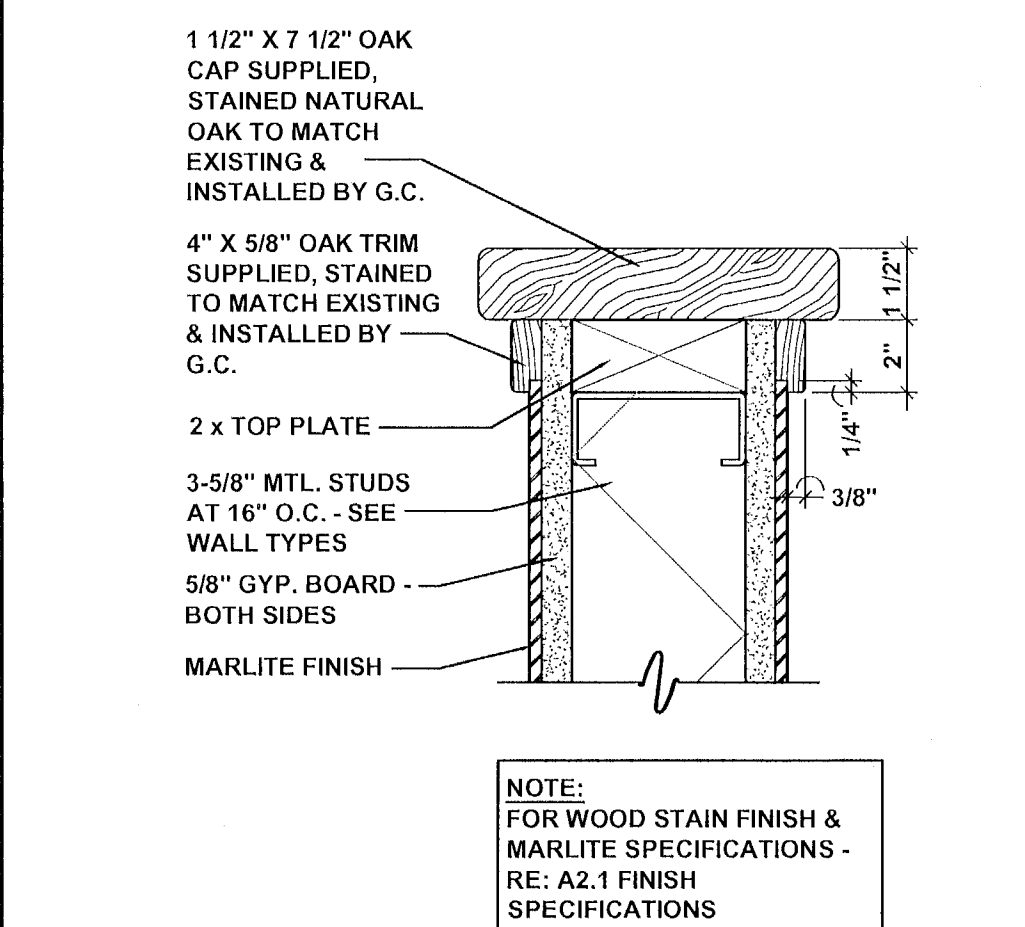
13 SOFFIT DETAIL

SCALE: 1-1/2" = 1'-0"



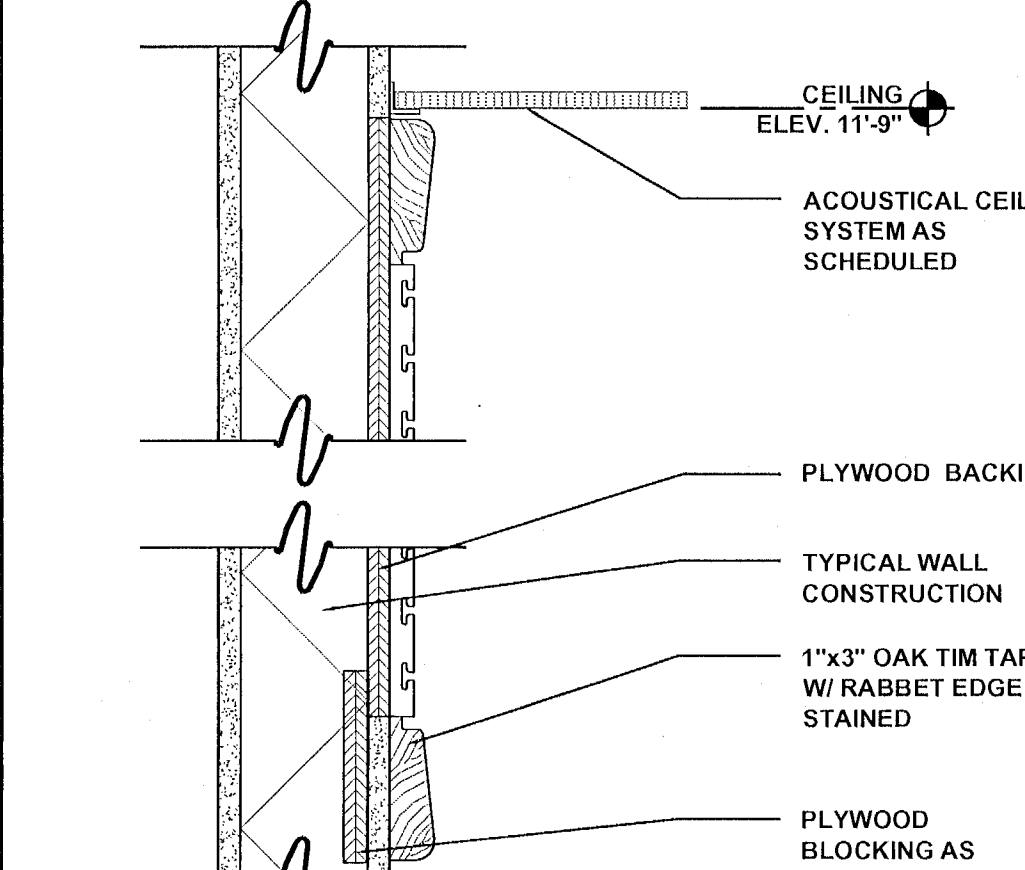
14 TYPICAL CHAIR RAIL DETAIL

SCALE: 6" = 1'-0"



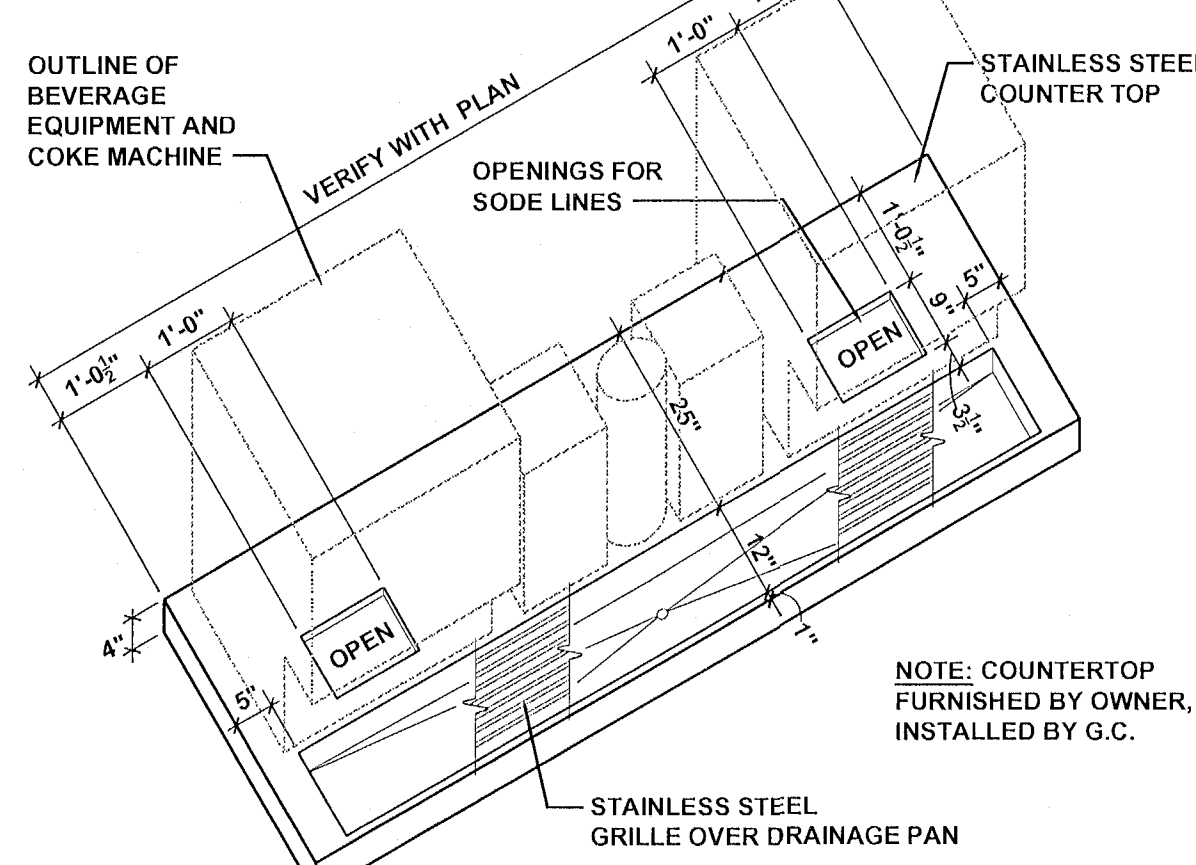
15 ENLARGED CAP DETAIL

SCALE: 3" = 1'-0"



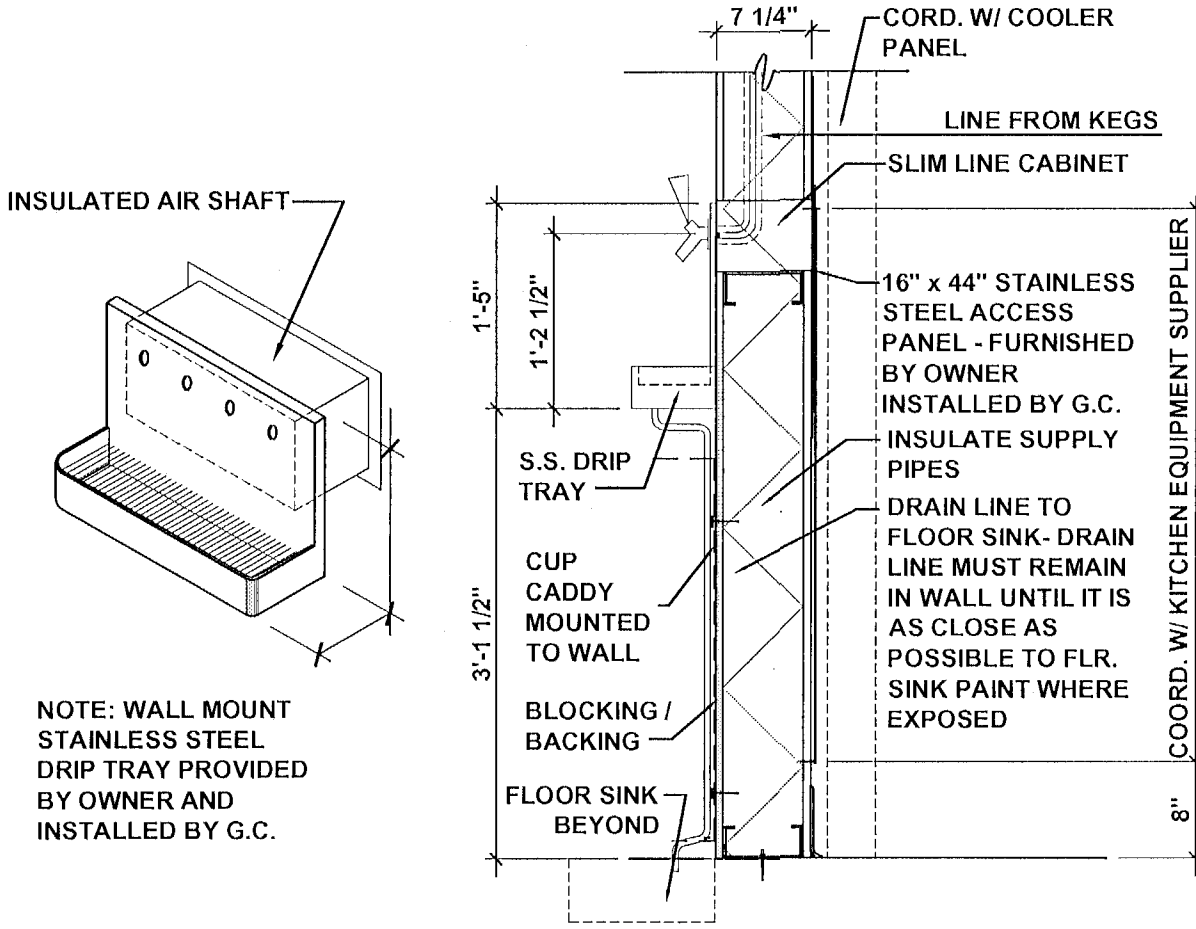
16 SLAT WALL SECTION

SCALE: 3" = 1'-0"



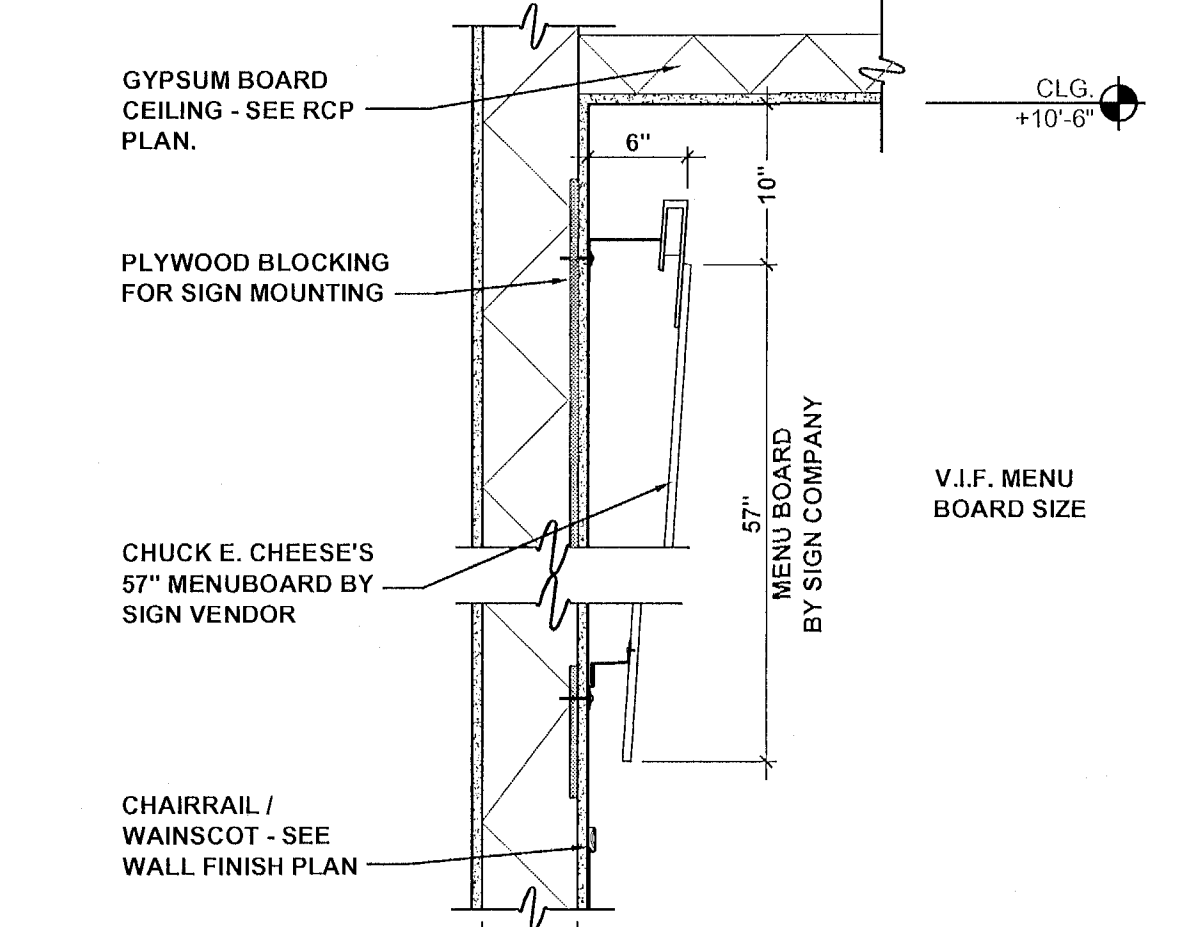
09 STAINLESS STEEL BEV. COUNTER DETAIL

SCALE: 1/2" = 1'-0"



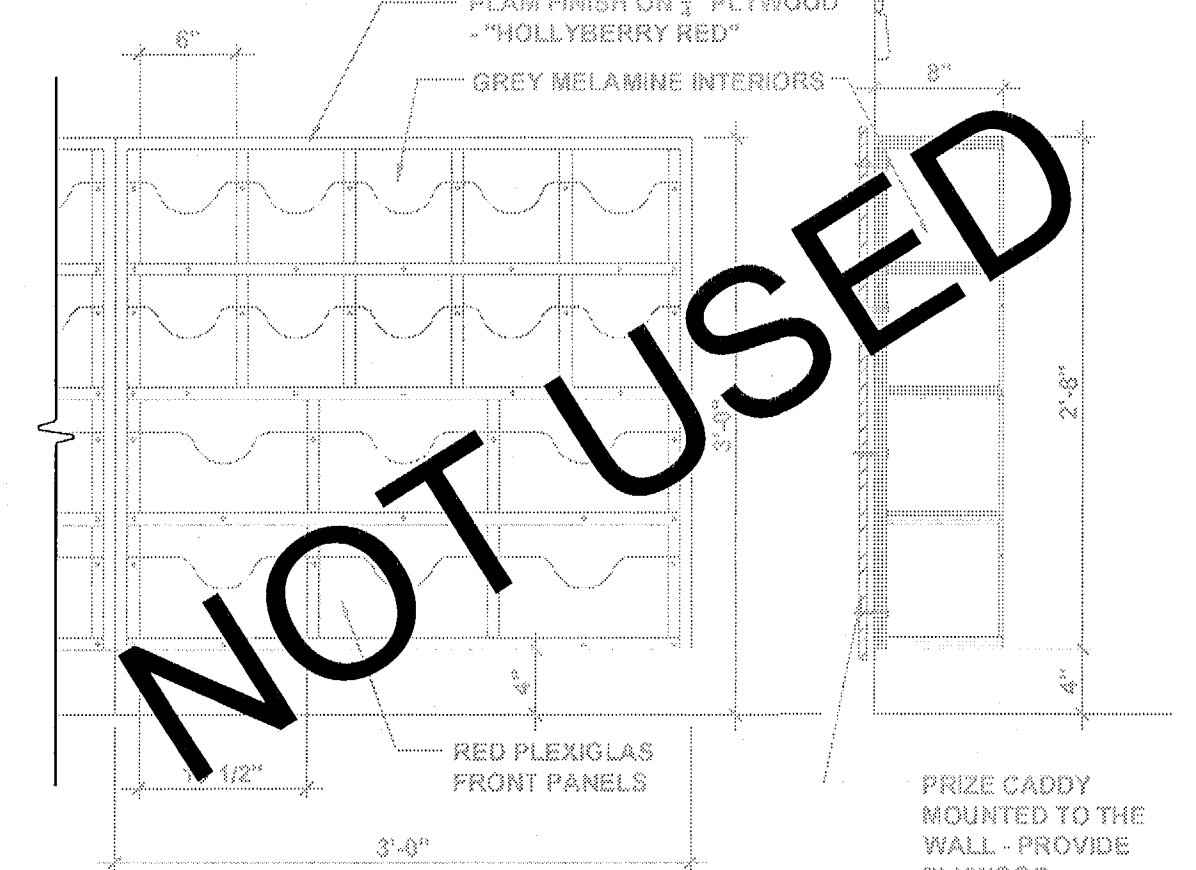
10 BEER TAP SECTION

SCALE: 3/4" = 1'-0"



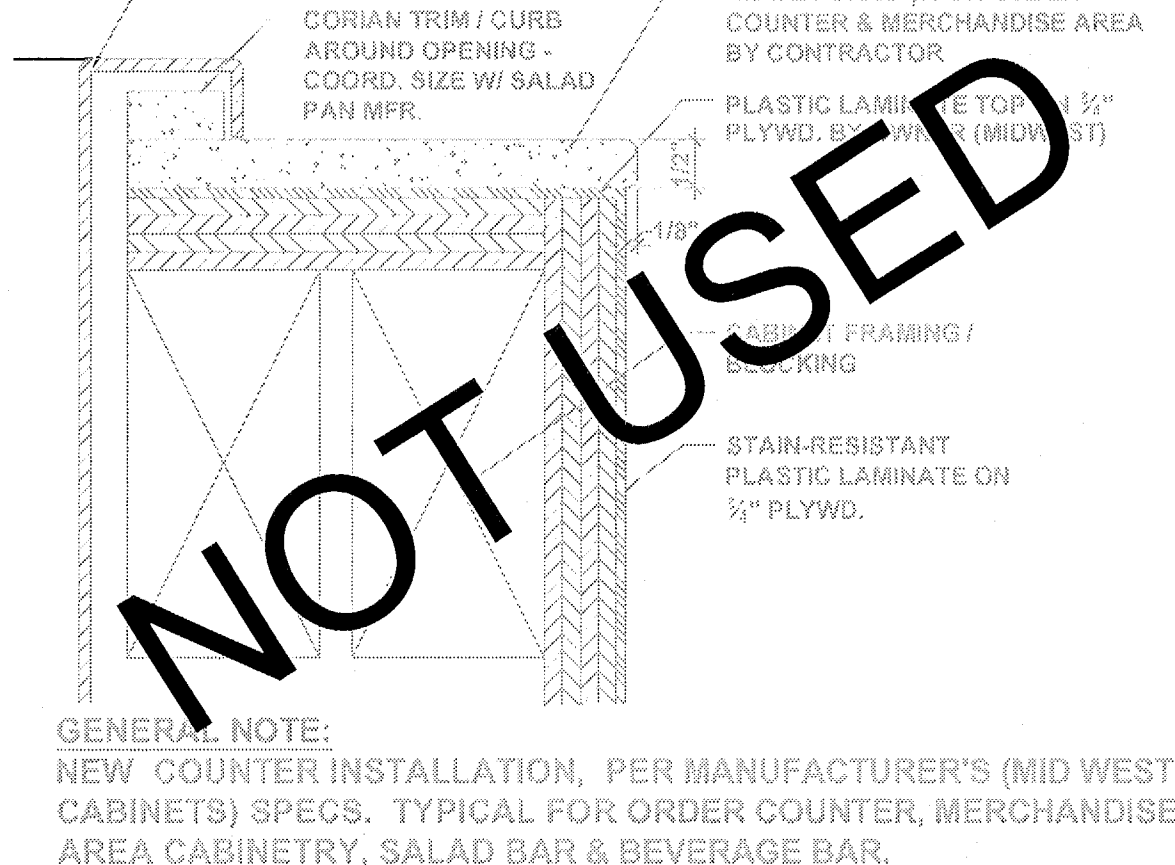
11 MENU BOARD SECTION

SCALE: 1" = 1'-0"



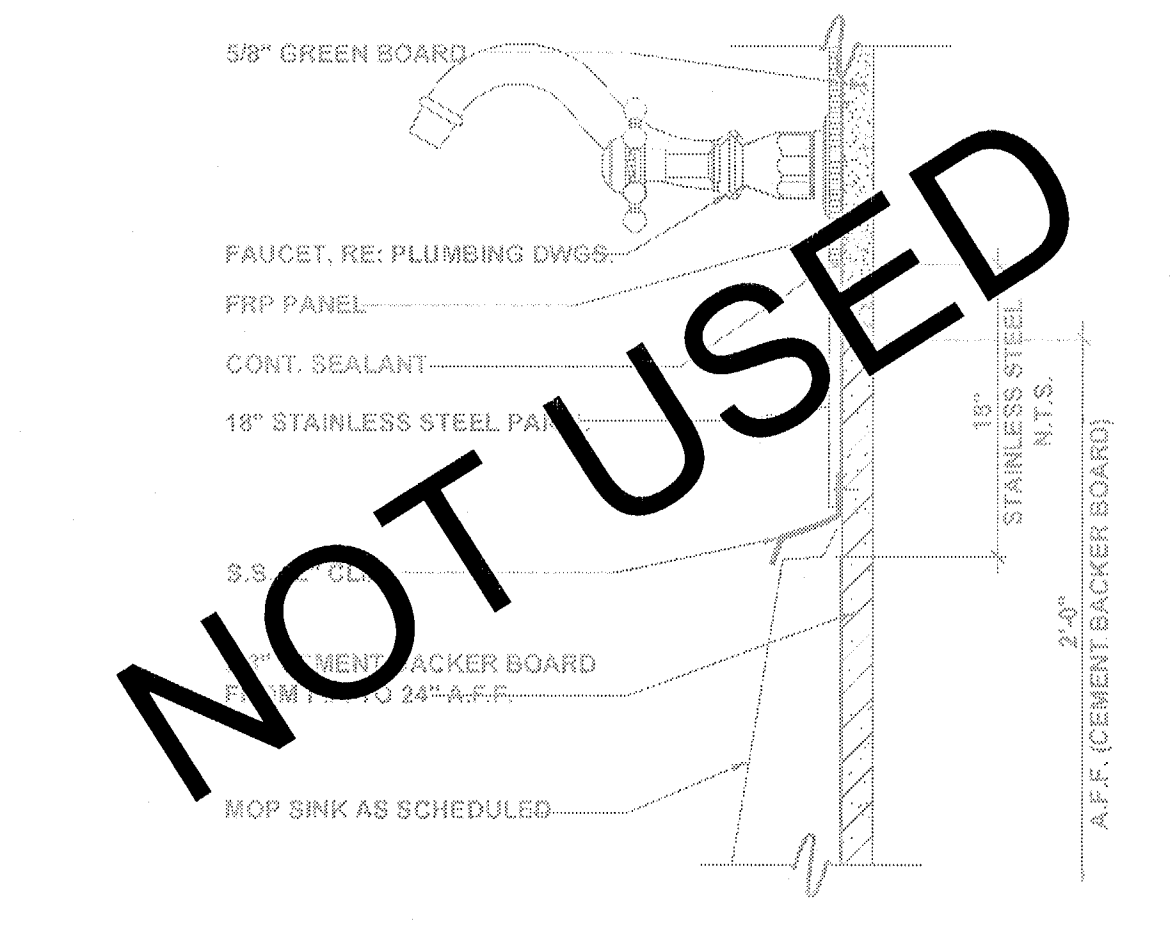
12 PRIZE CADDY SECTION

SCALE: 1" = 1'-0"



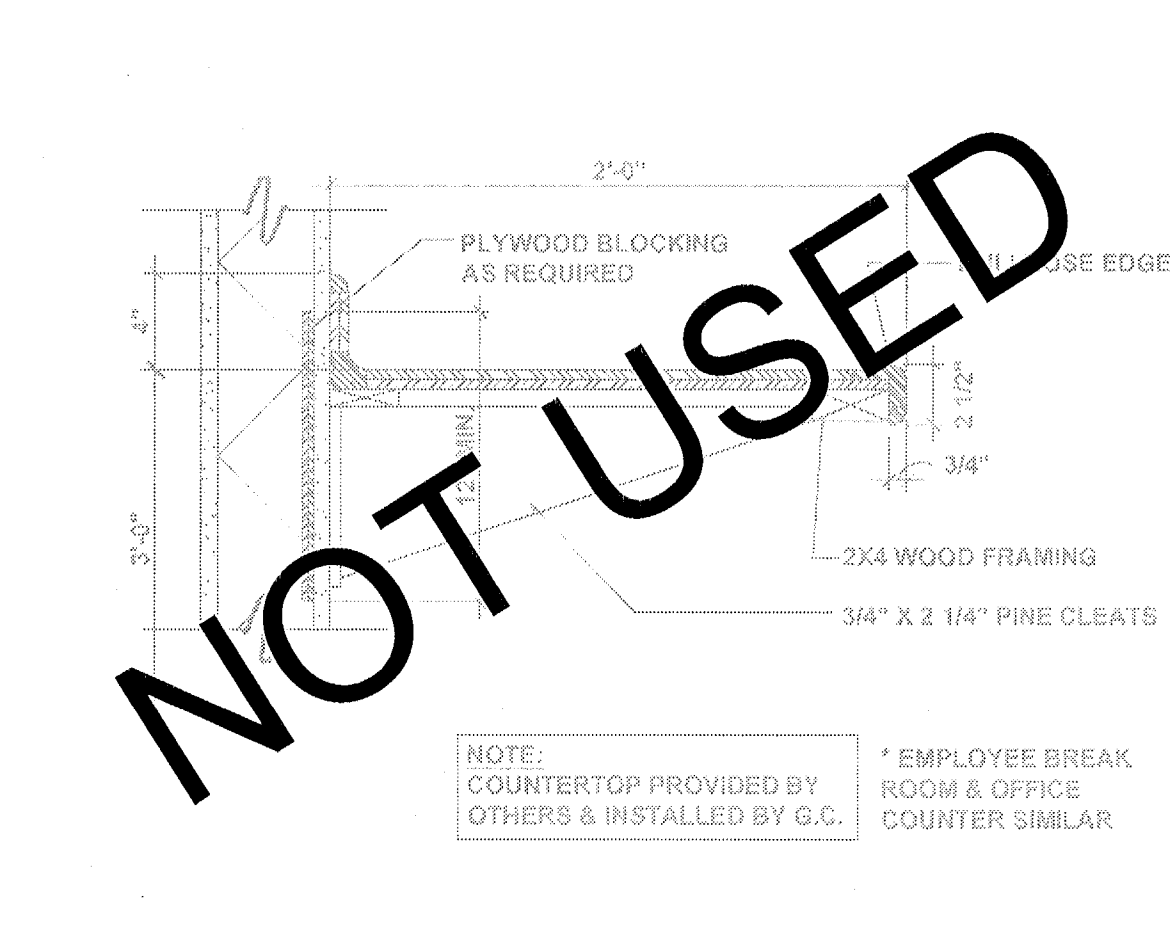
05 CORIAN COUNTER TOP DETAIL

SCALE: 6" = 1'-0"



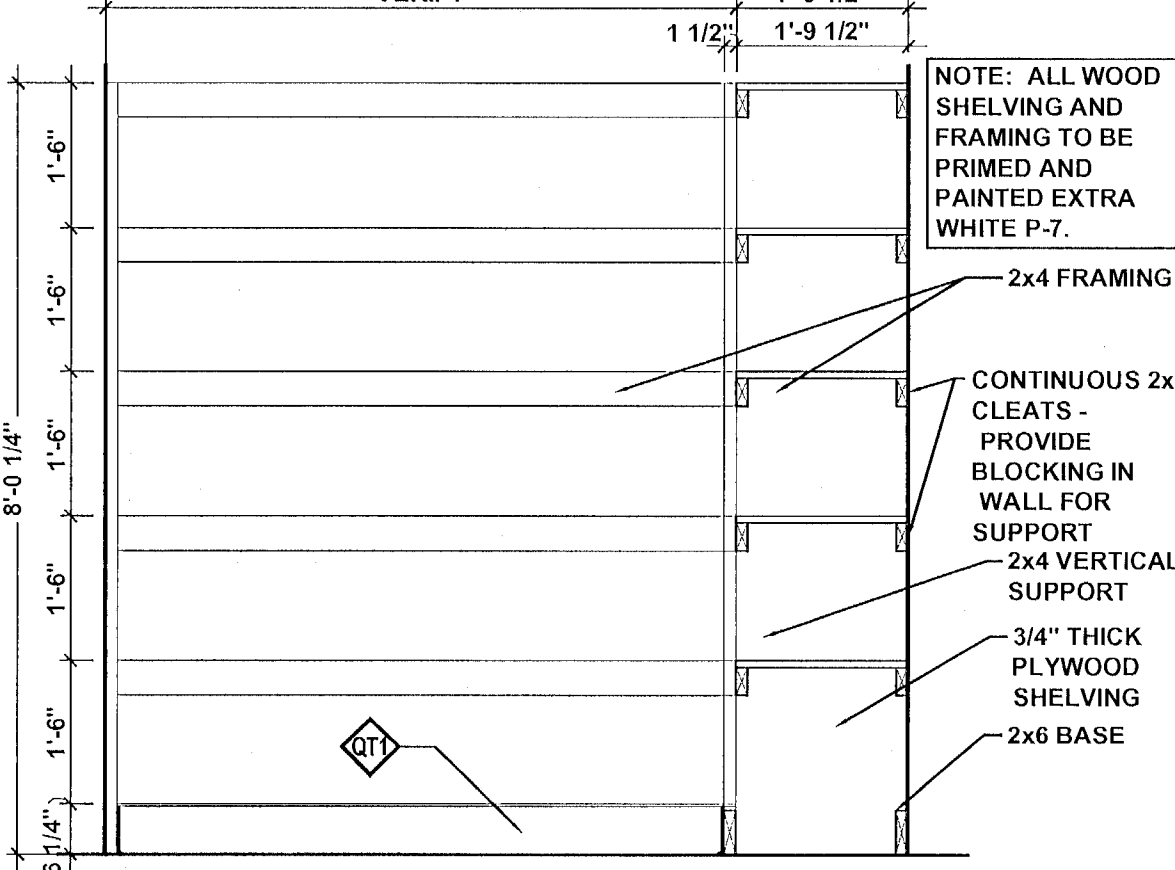
06 MOP SINK FAUCET DETAIL

SCALE: 3" = 1'-0"



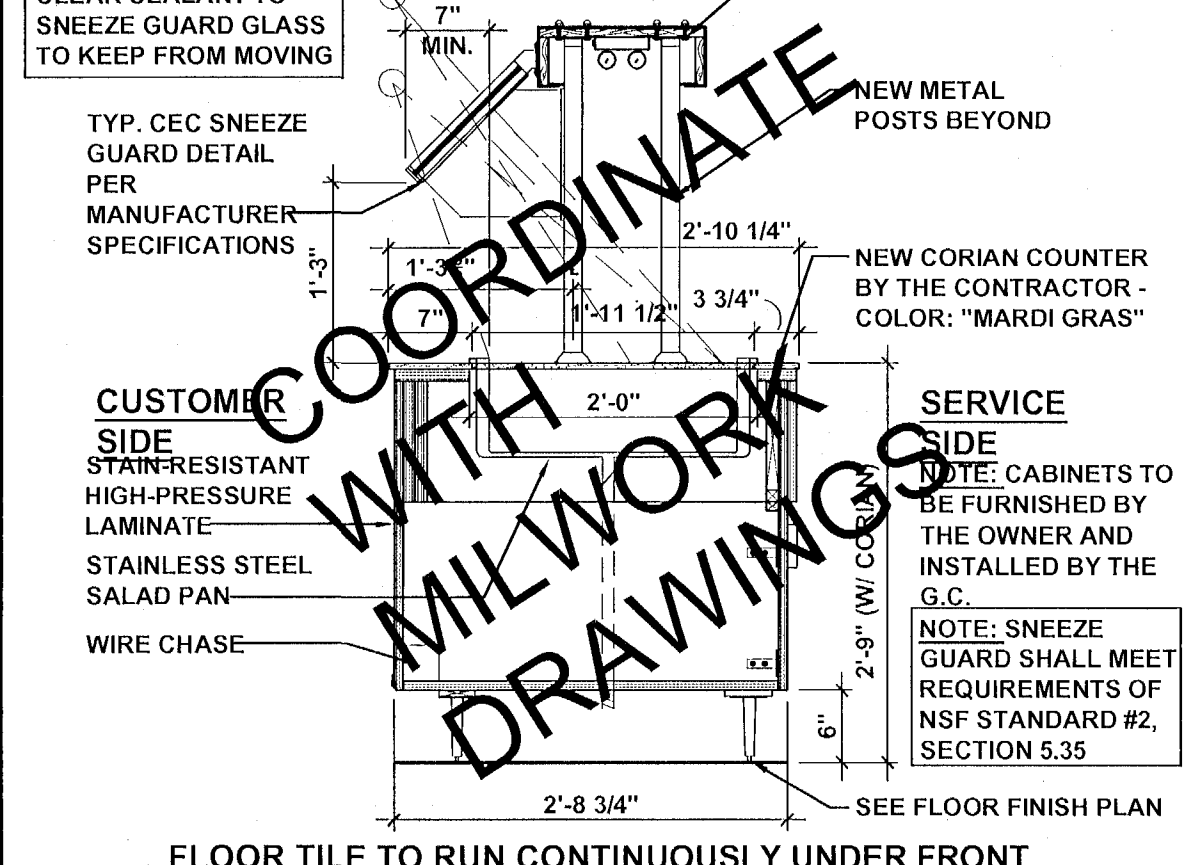
07 TECH COUNTER SECTION

SCALE: 1-1/2" = 1'-0"



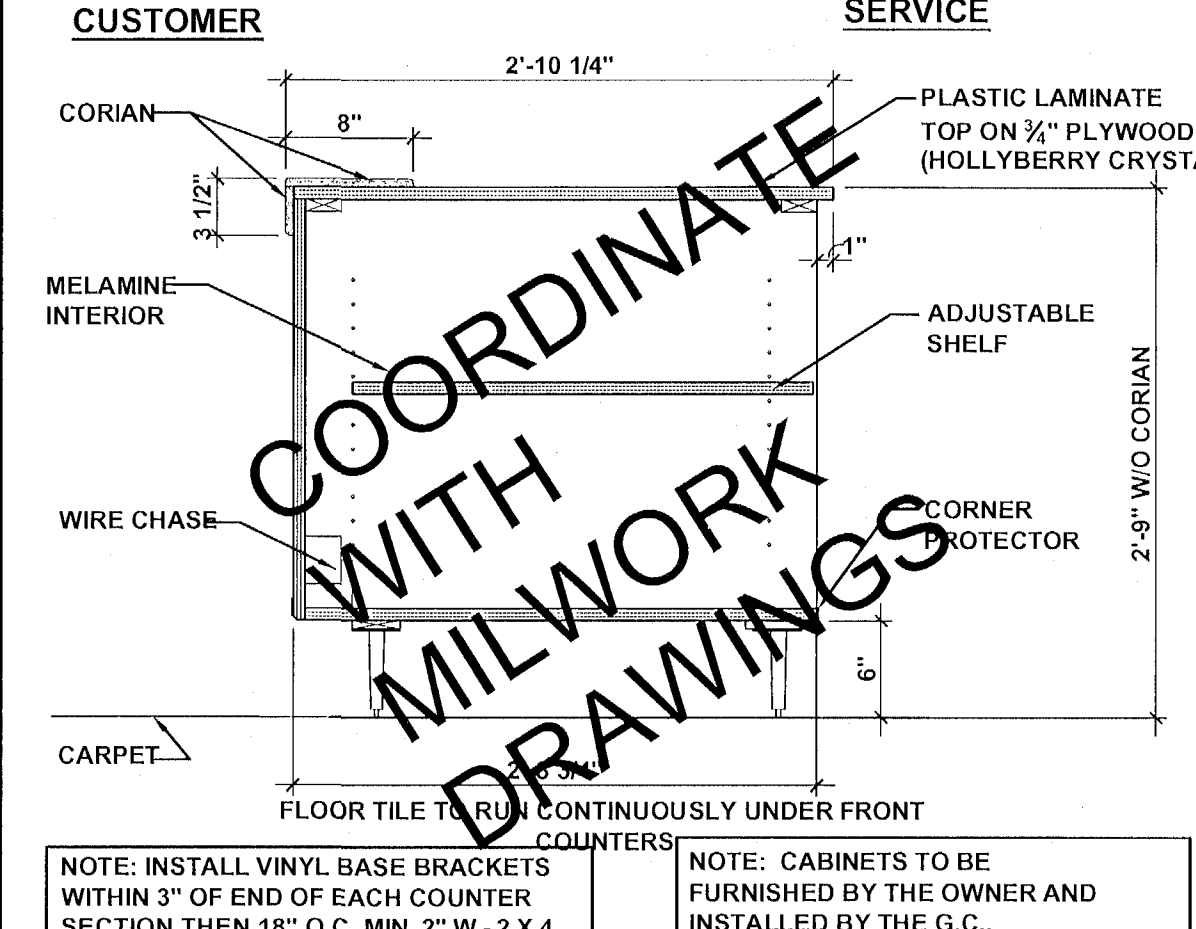
08 MERCHANT STORAGE SHELVING DETAIL

SCALE: 1/2" = 1'-0"



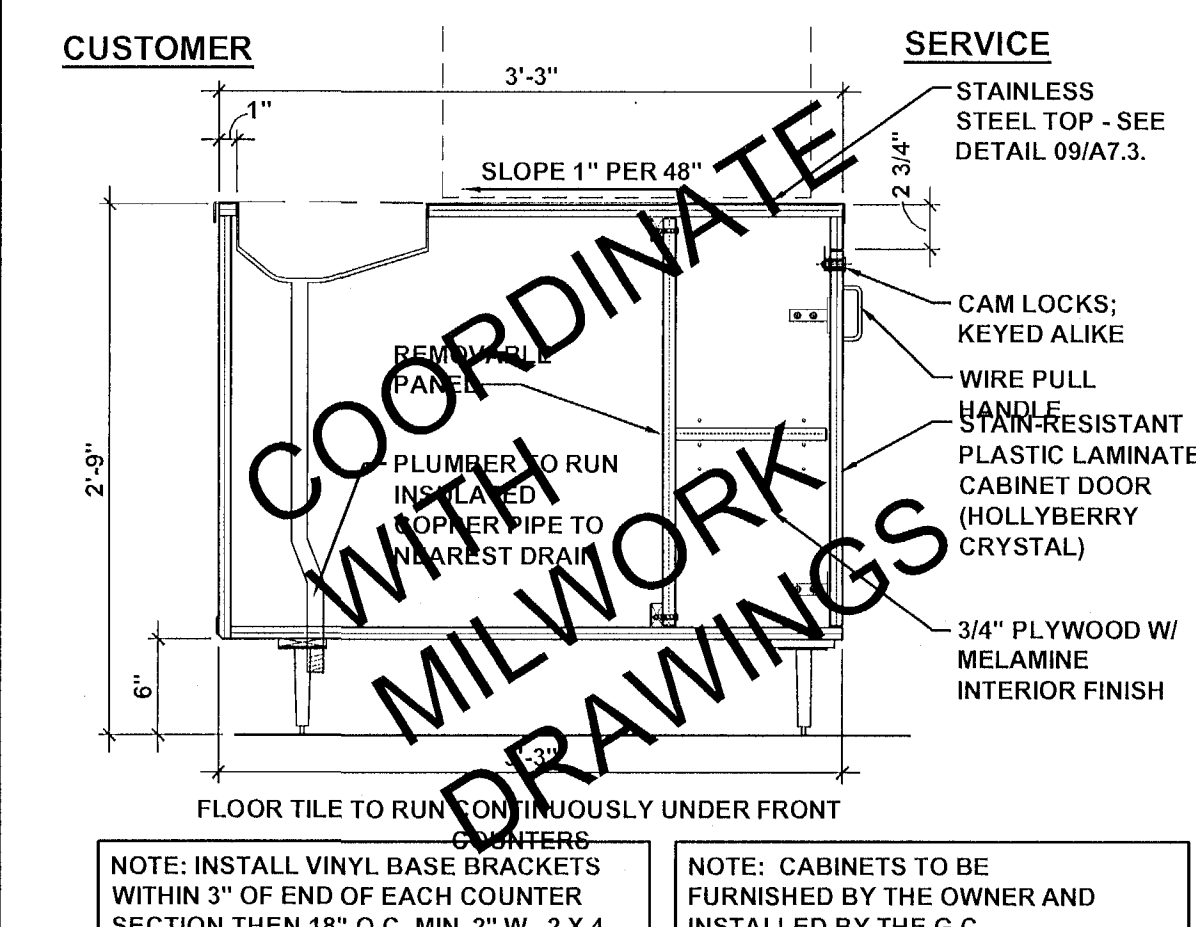
01 FREESTANDING SNEEZE GUARD DETAIL

SCALE: 3/4" = 1'-0"



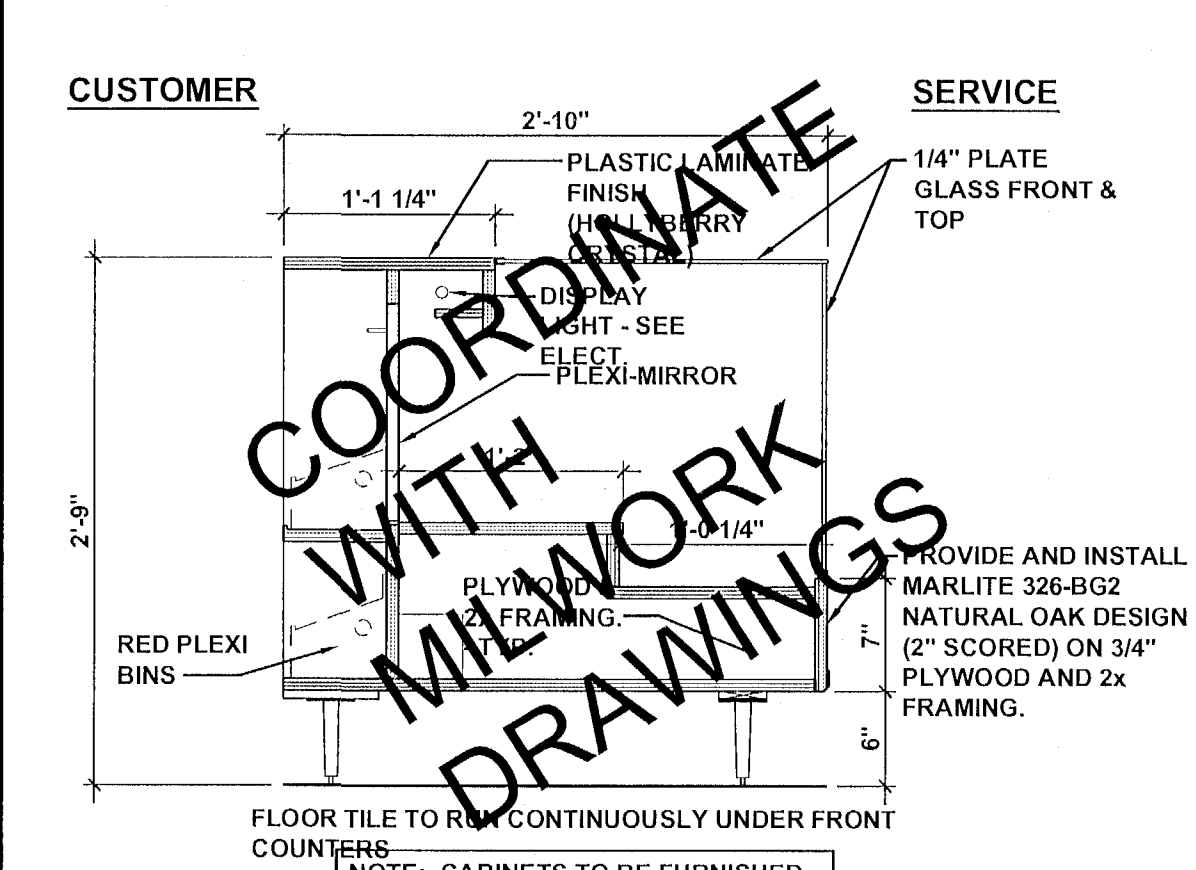
02 ORDER COUNTER SECTION

SCALE: 1" = 1'-0"



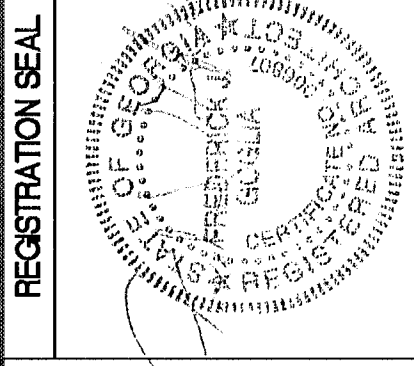
03 BEVERAGE BAR SECTION

SCALE: 1" = 1'-0"

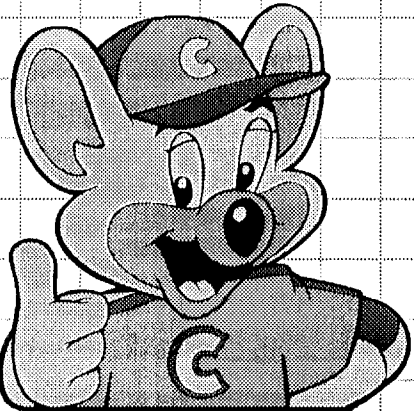


04 PRIZE COUNTER SECTION

SCALE: 1" = 1'-0"



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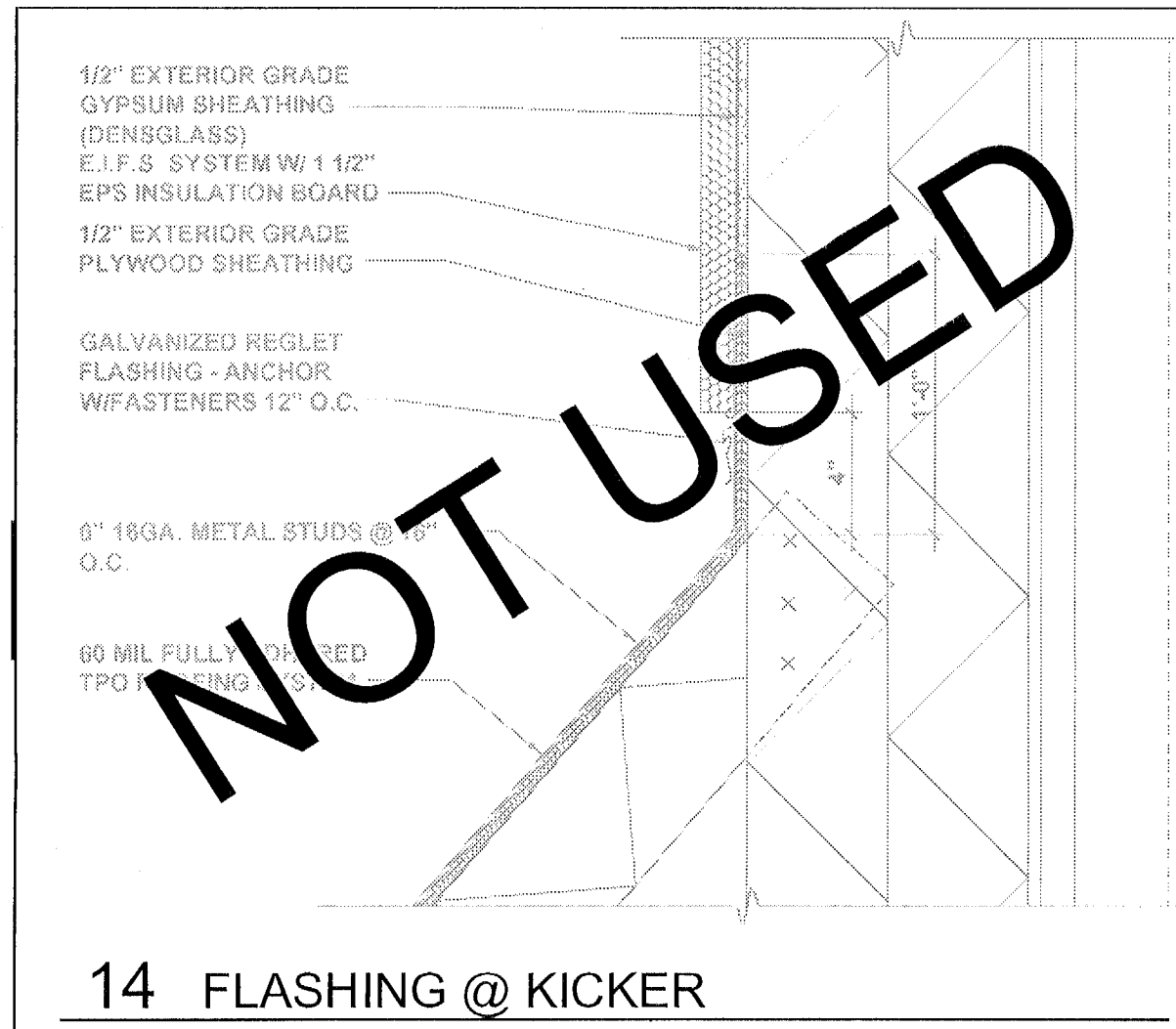


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AUGUSTA, GA 30909
STORE# 939

REV.	DATE	DESCRIPTION
1	10/1/01	PROJECT NO. 101301
2	11/1/01	DRAWN BY: JH
3	11/1/01	CHECKED BY: RK
4	03/11/11	ISSUE DATE

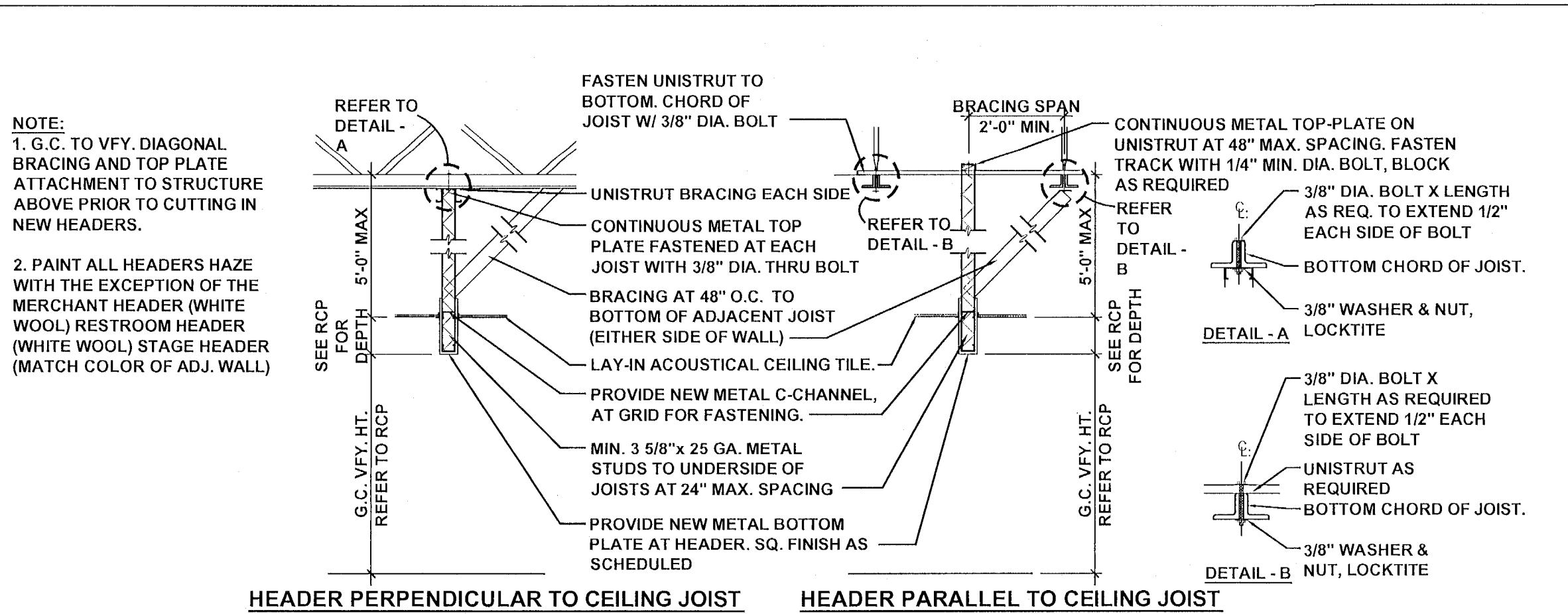
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INTERIOR DETAILS



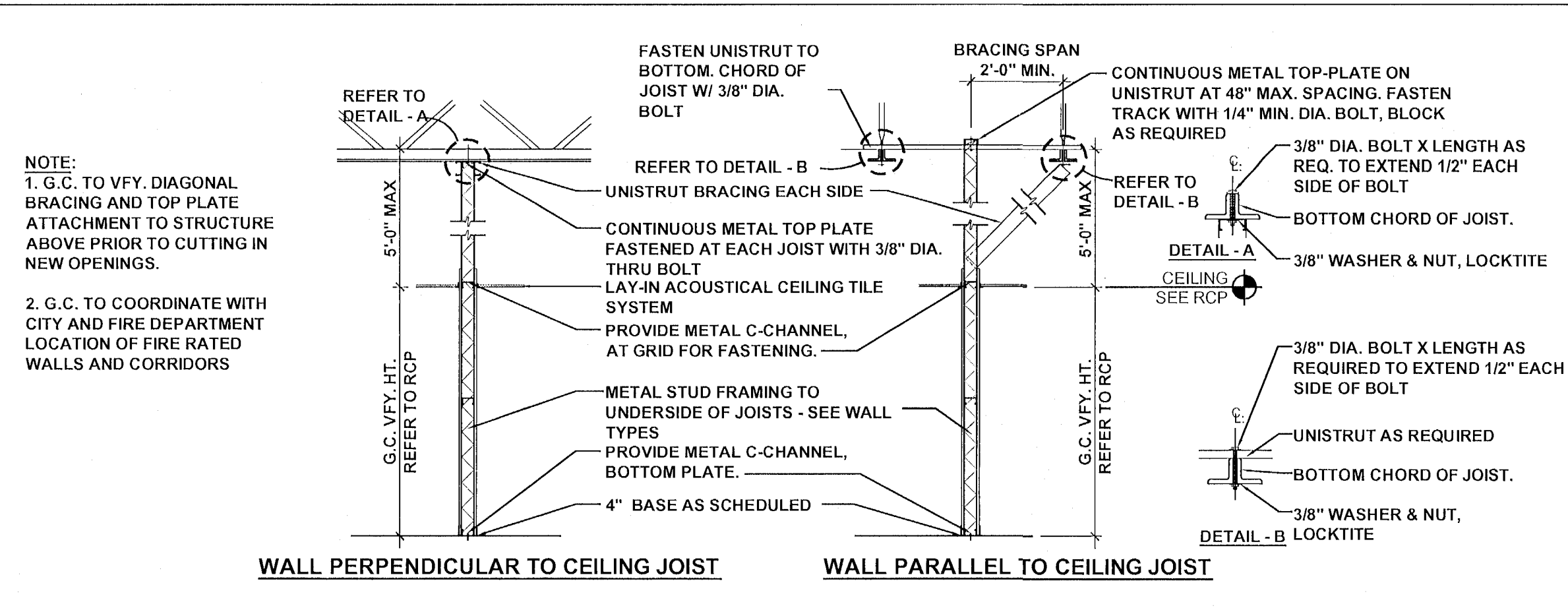
14 FLASHING @ KICKER

SCALE: 1-1/2" = 1'-0"



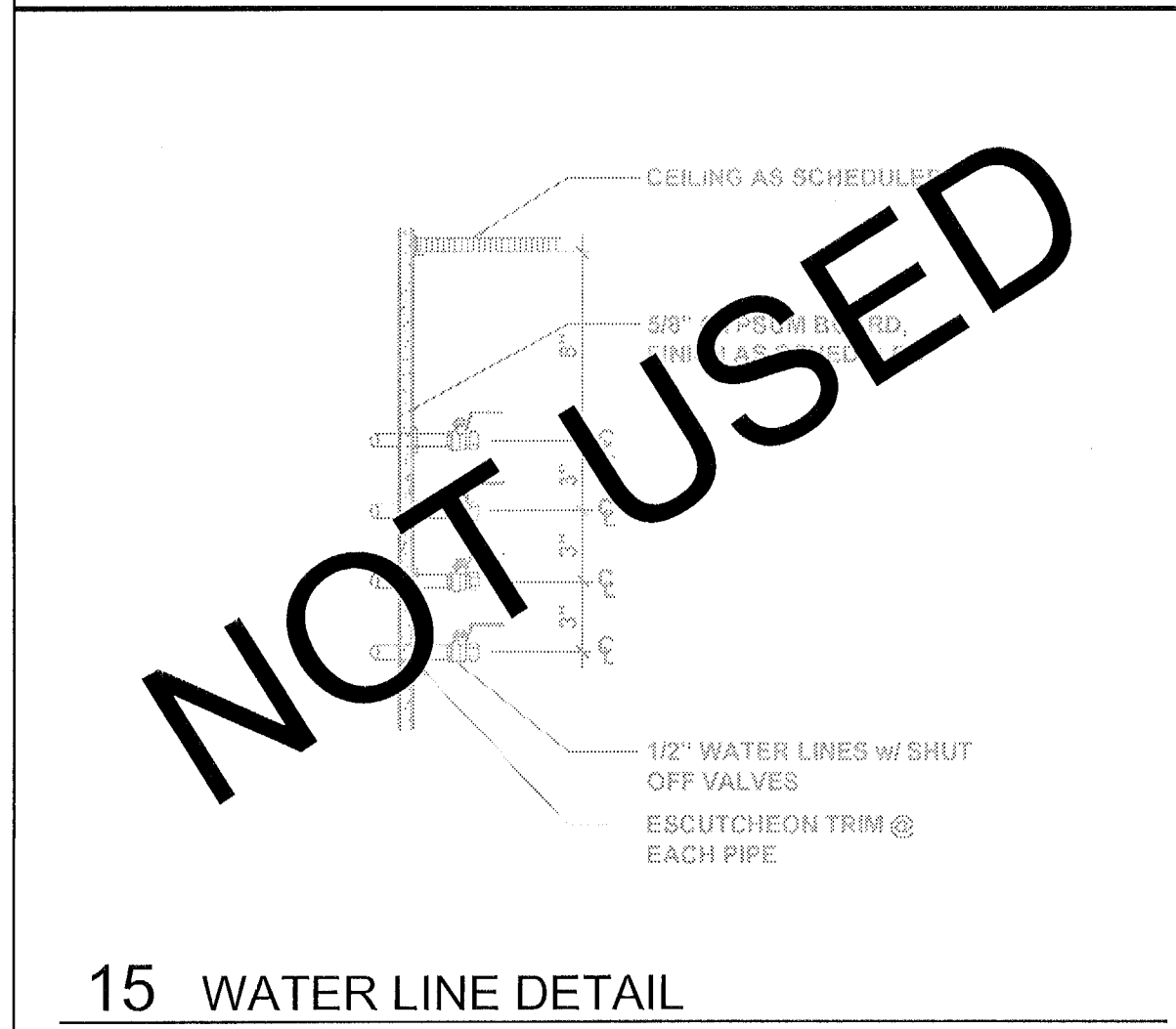
07 TYPICAL HEADER DETAIL

SCALE: N.T.S.



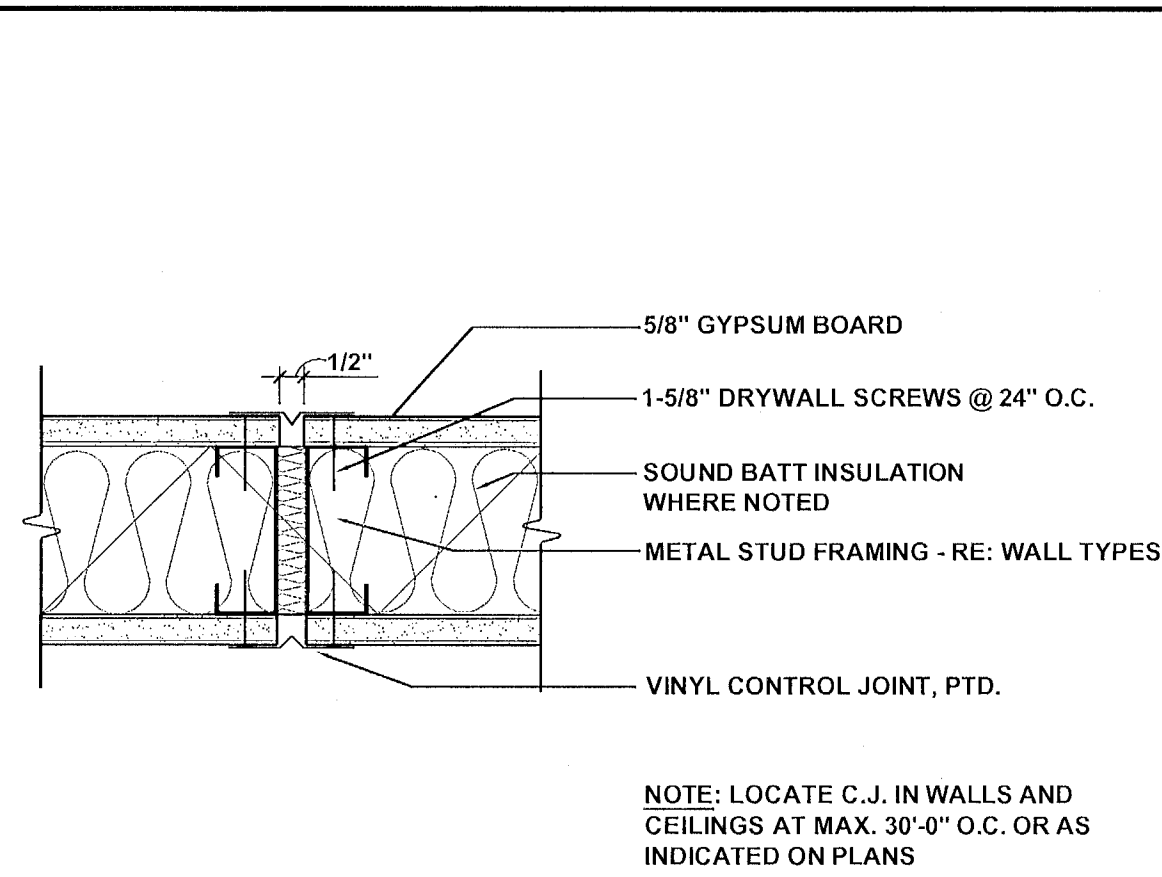
01 TYPICAL FULL HEIGHT WALL DETAIL

SCALE: N.T.S.



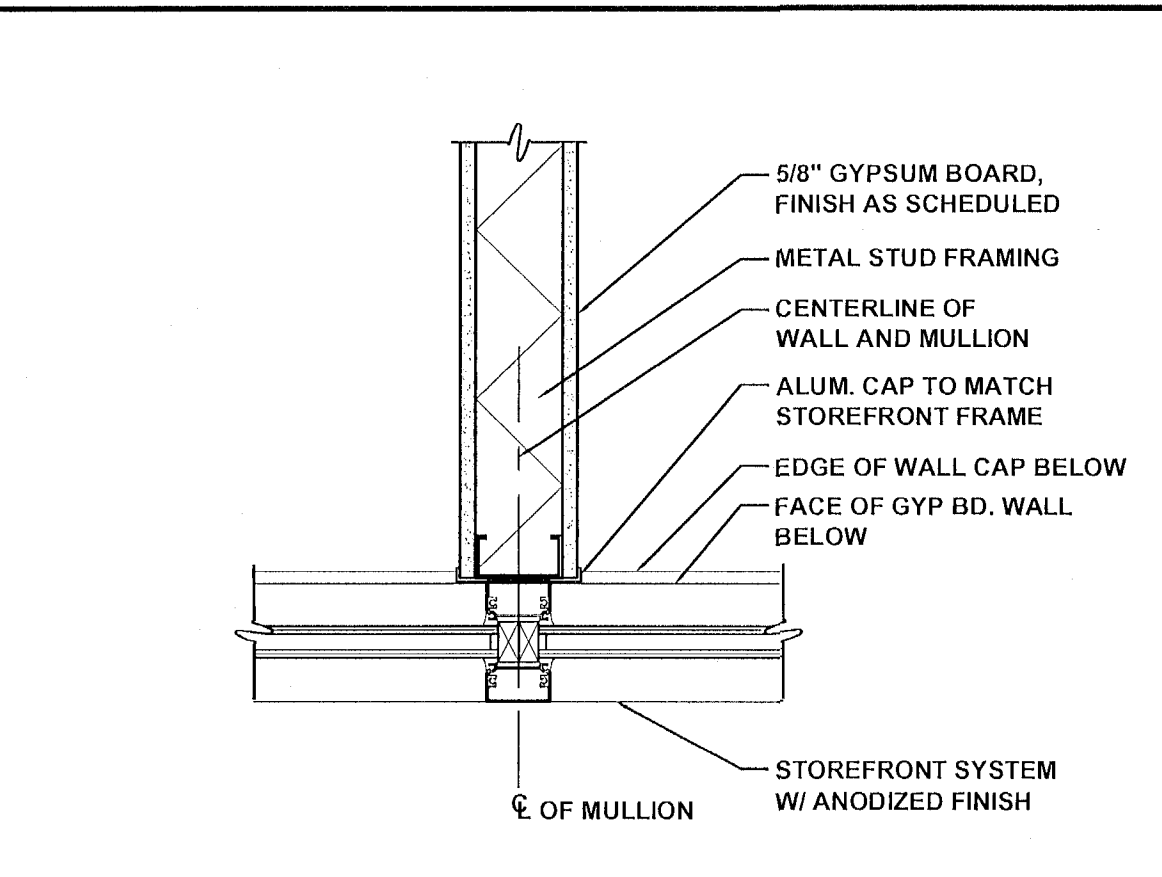
15 WATER LINE DETAIL

SCALE: 1-1/2" = 1'-0"



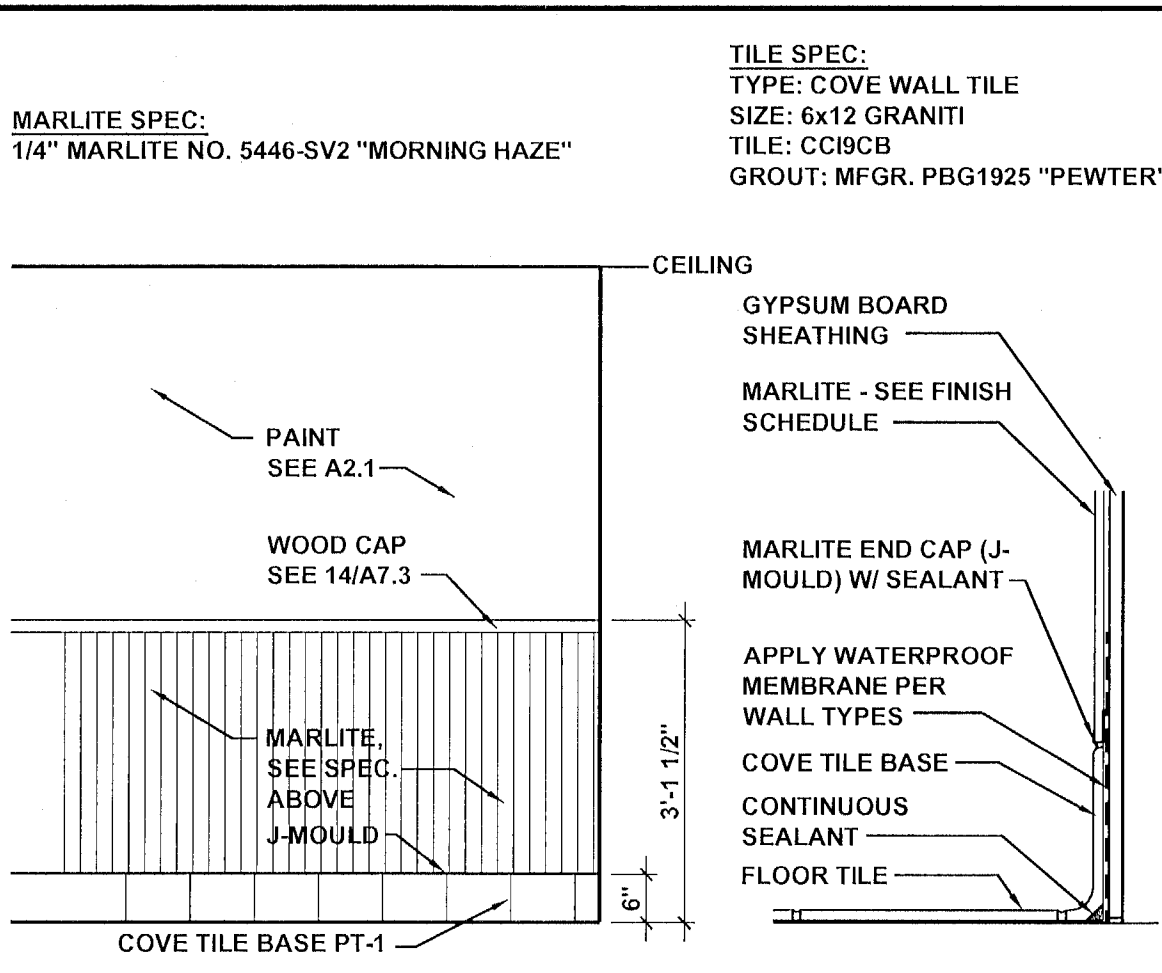
11 TYPICAL GYP. BD. C.J.

SCALE: 3" = 1'-0"



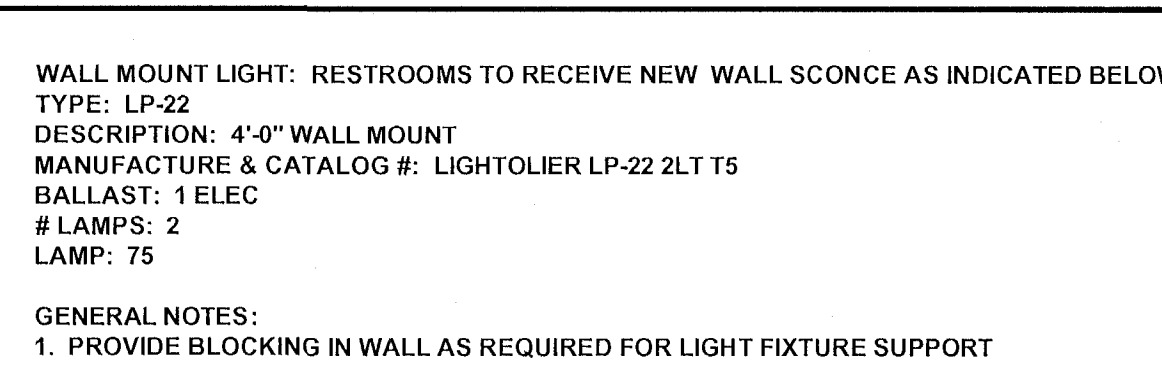
08 WALL @ WINDOW MULLION DETAIL

SCALE: 1-1/2" = 1'-0"



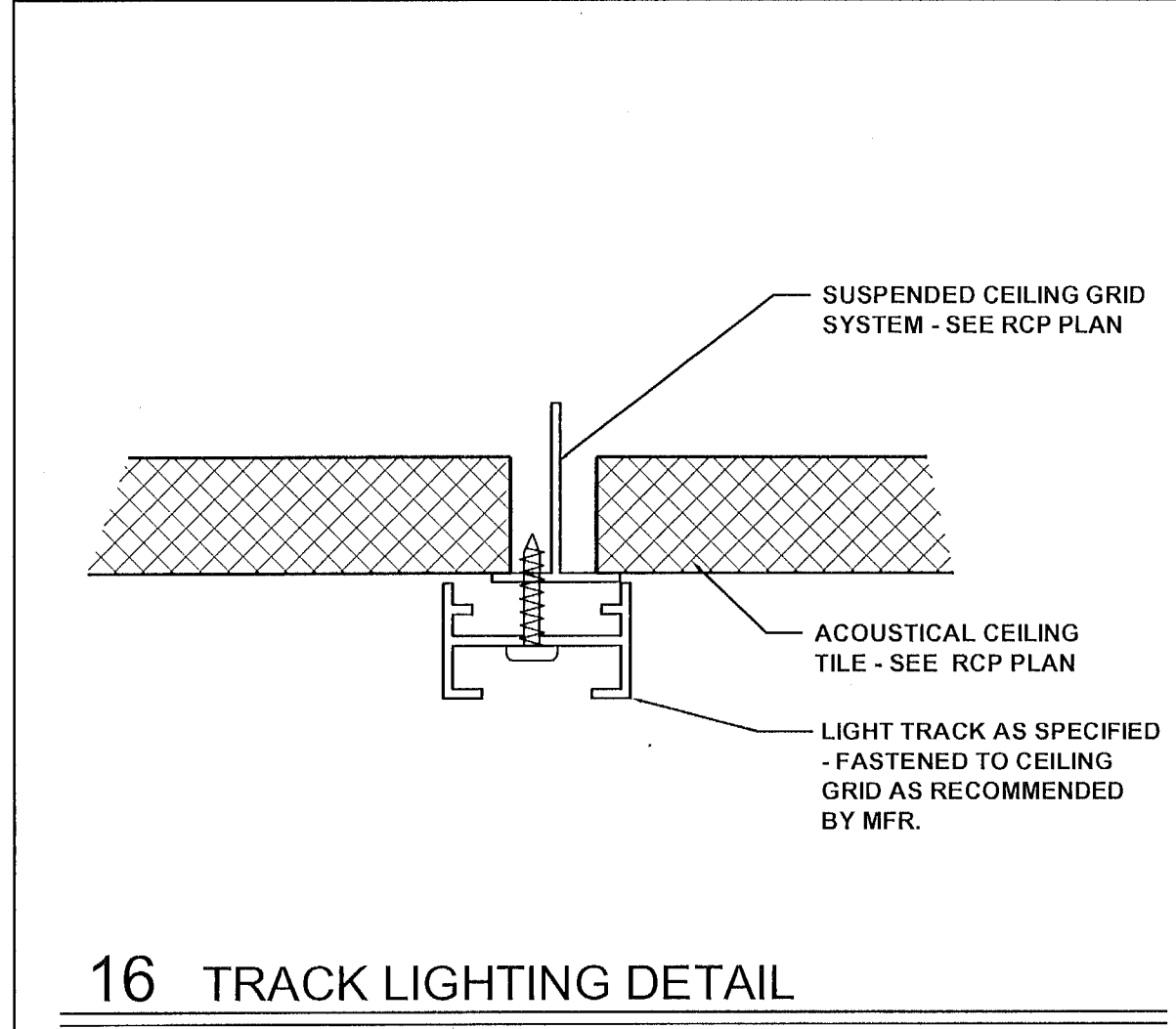
04 MARLITE COVE WALL DETAIL

SCALE: N.T.S.



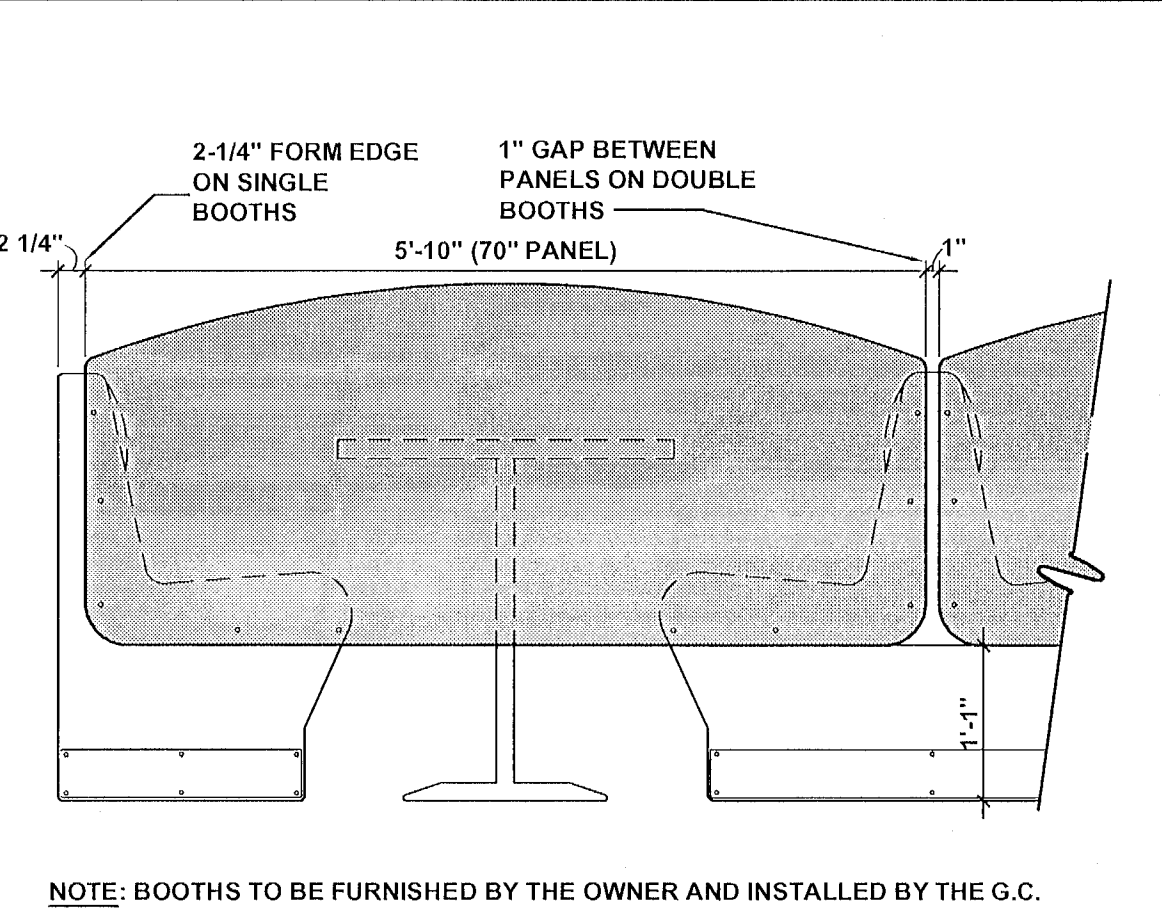
02 RESTROOM LIGHT VALANCE

SCALE: 6" = 1'-0"



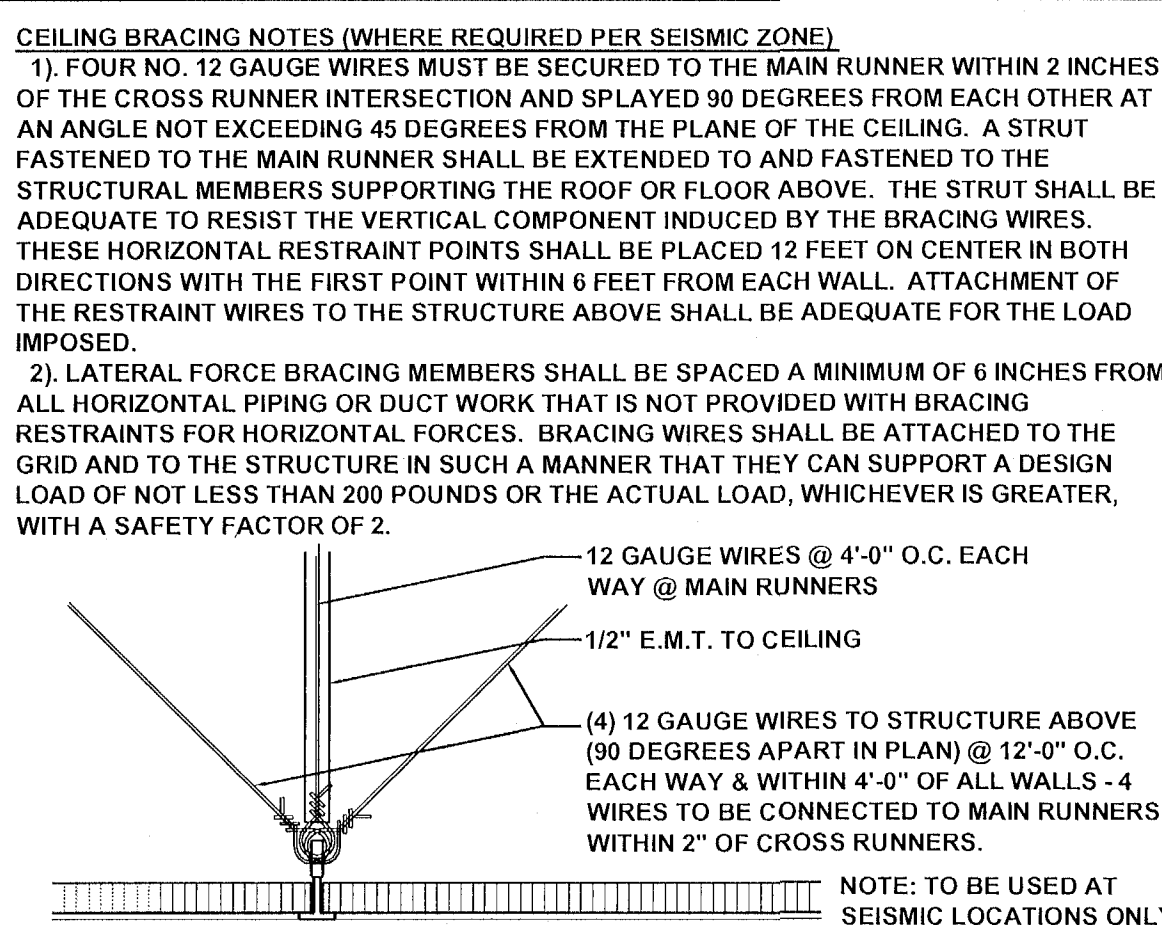
16 TRACK LIGHTING DETAIL

SCALE: N.T.S.



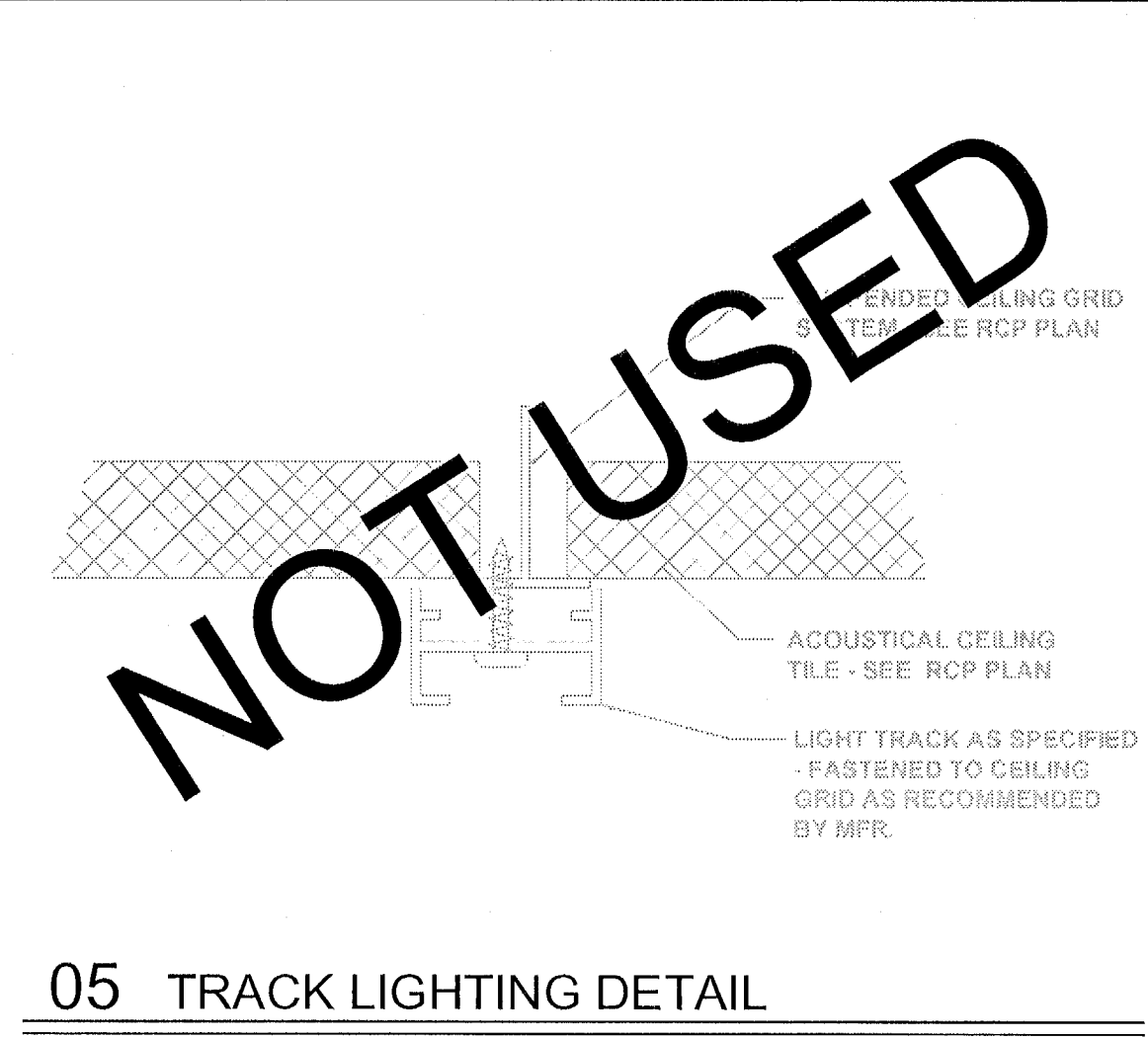
12 TYP. BOOTH DIVIDING PANELS

SCALE: 3/4" = 1'-0"



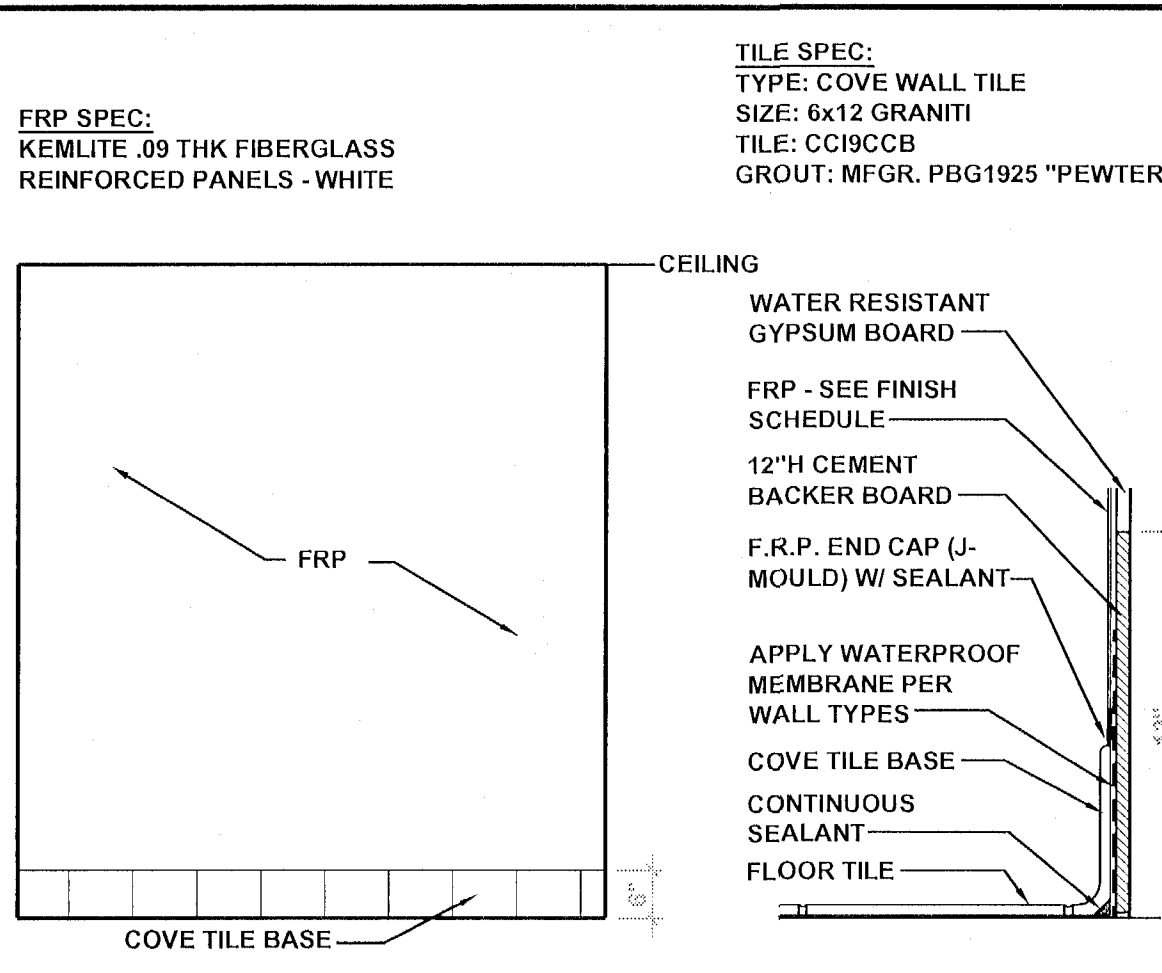
09 CEILING LATERAL TIE DETAIL

SCALE: N.T.S.



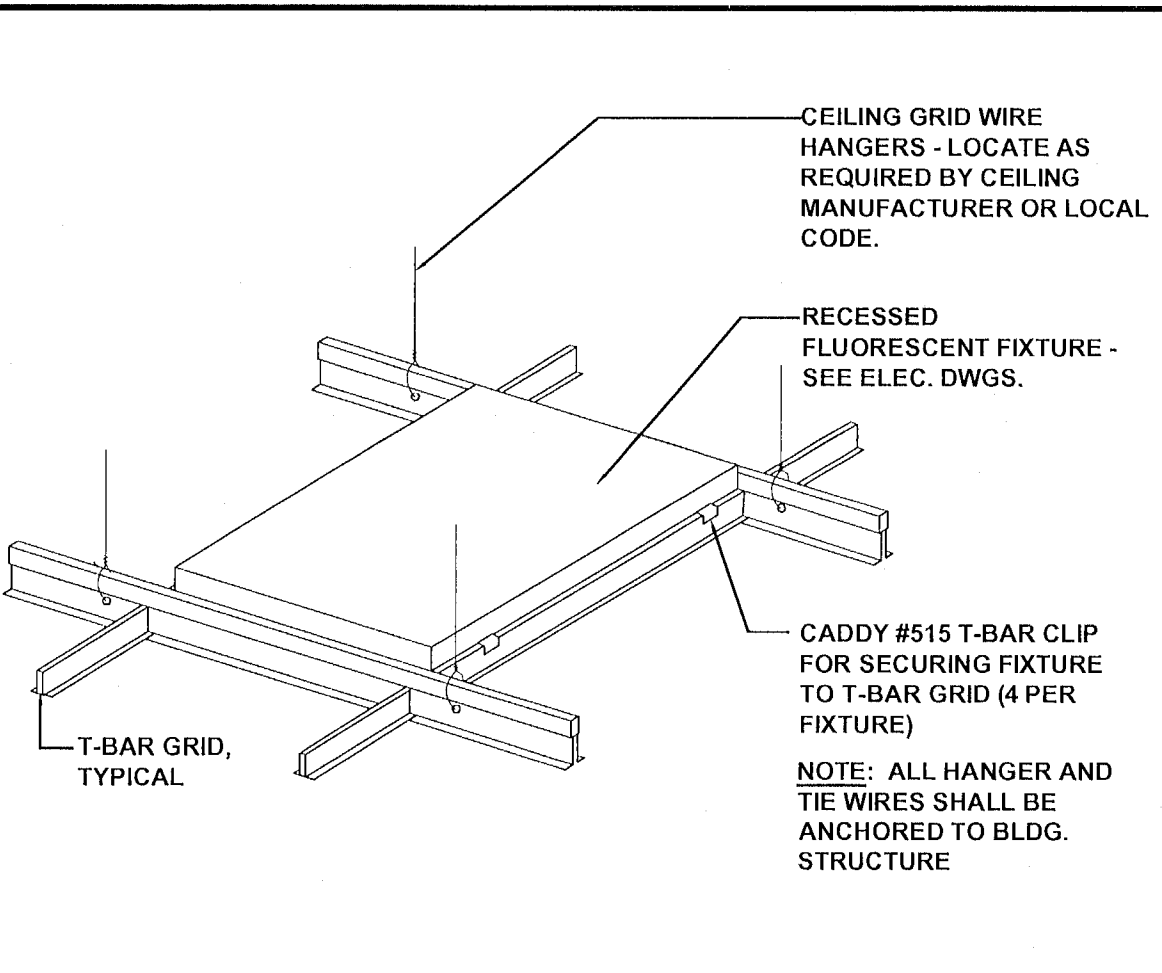
05 TRACK LIGHTING DETAIL

SCALE: N.T.S.



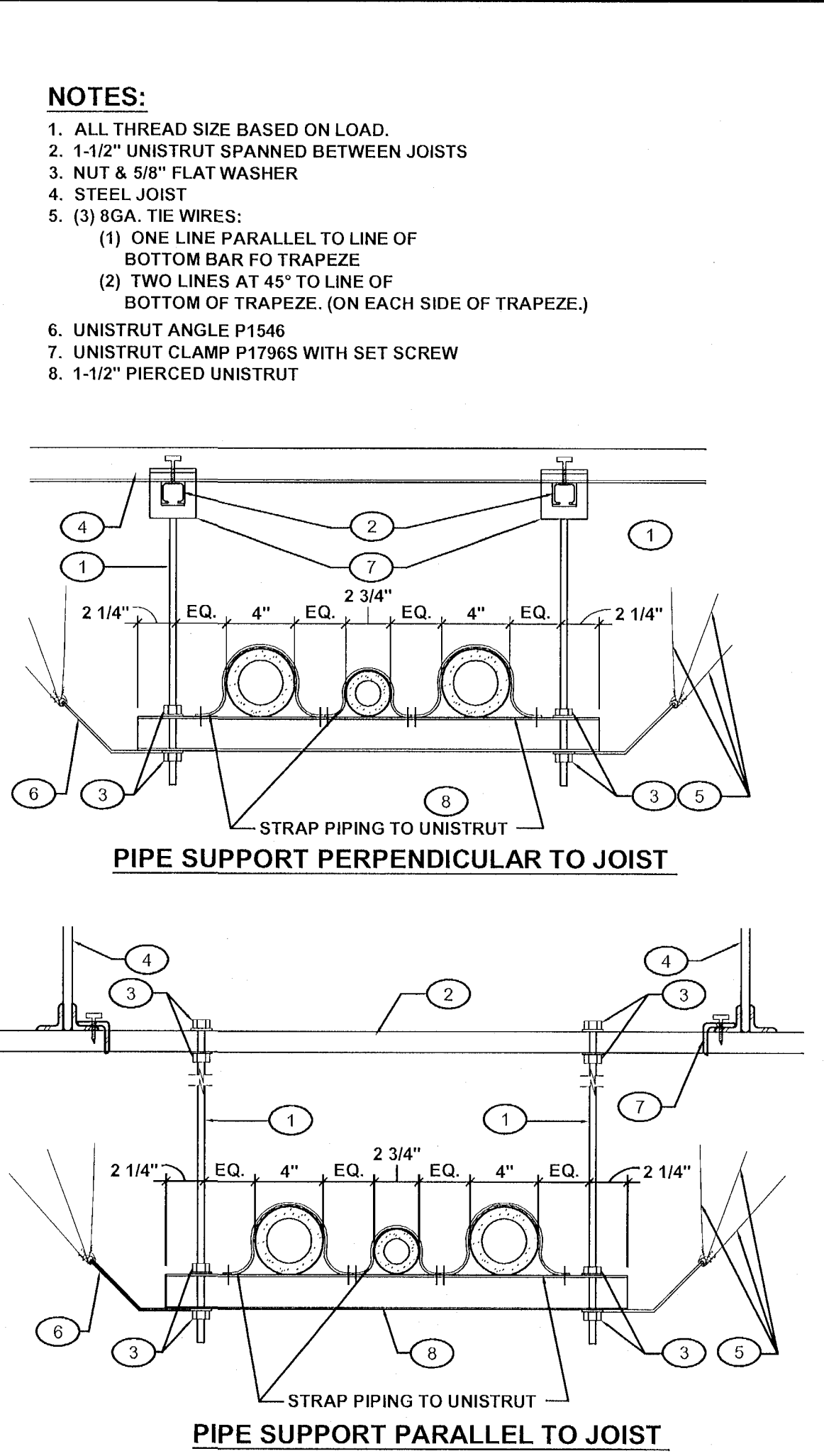
10 KITCHEN FRP COVE WALL DETAIL

SCALE: N.T.S.



06 TYPICAL LIGHT FIXTURE DETAIL

SCALE: N.T.S.



03 PIPING SUPPORT DETAIL

SCALE: 1-1/2" = 1'-0"

REGISTRATION SEAL

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AUGUSTA, GA 30909

STORE# 939

PROJECT NO: 101301

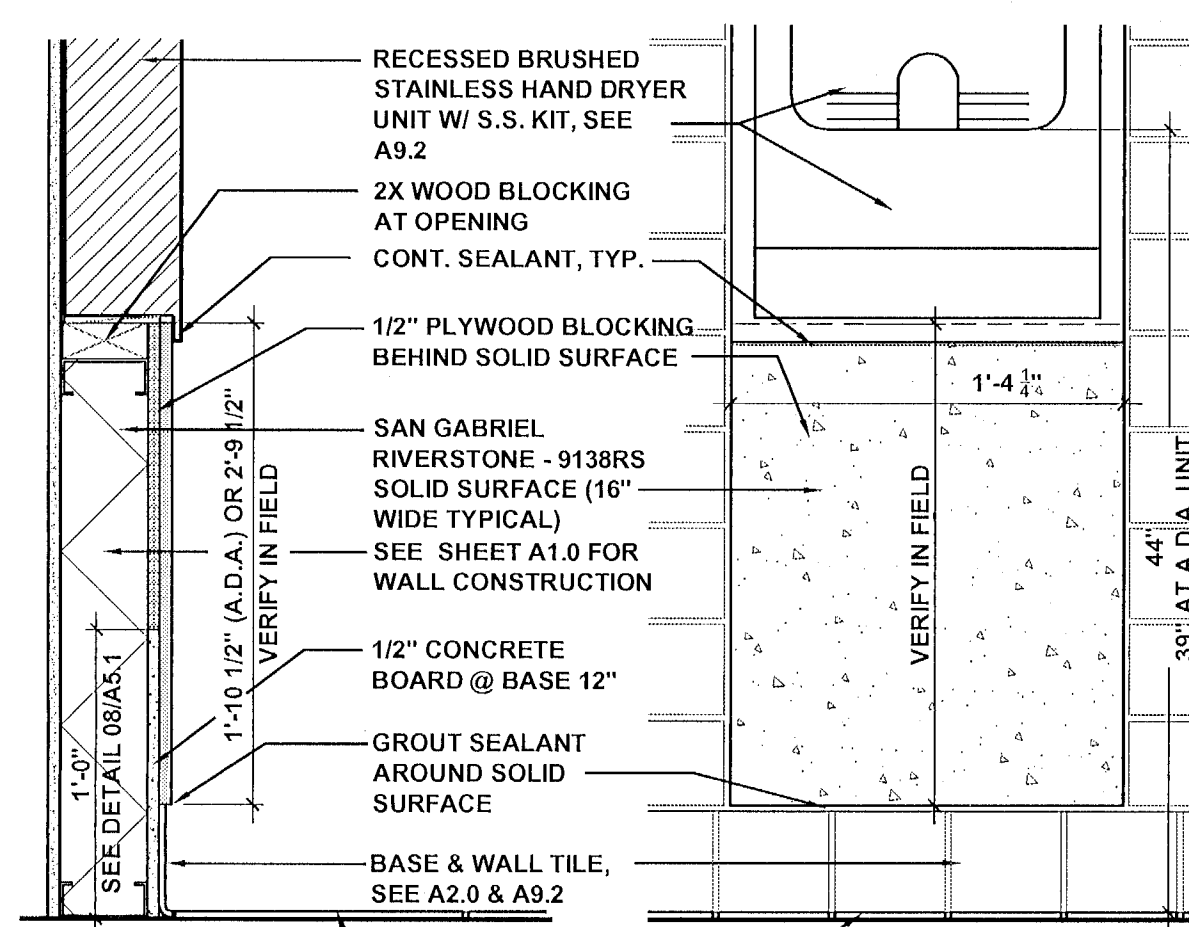
DRAWN BY: JH

CHECKED BY: RK

ISSUE DATE: 03/11/11

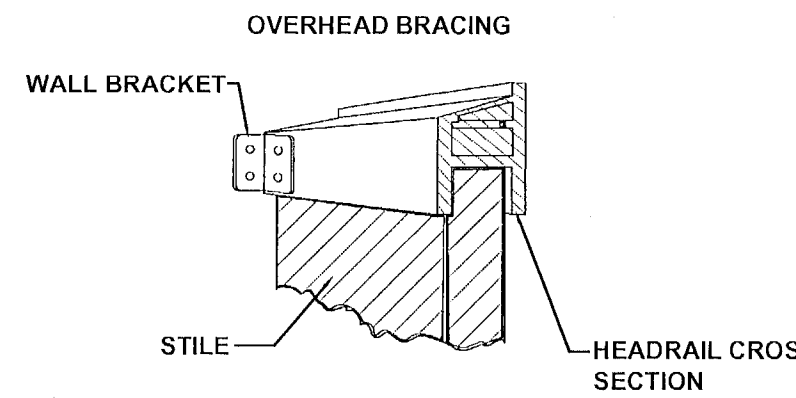
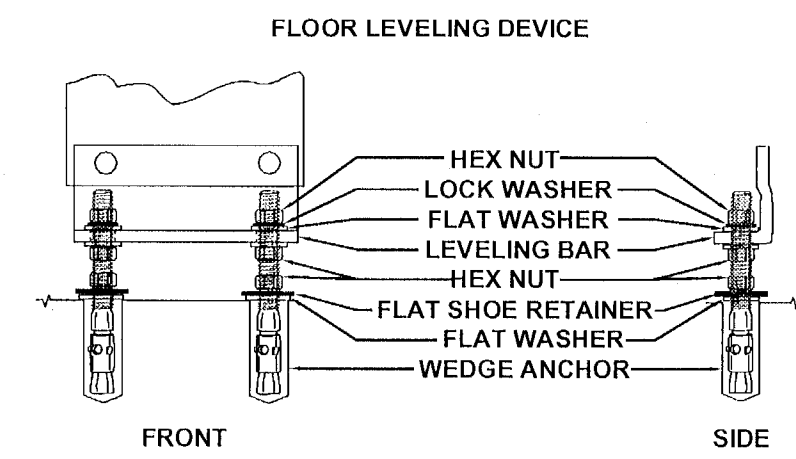
INTERIOR DETAILS

A7.4



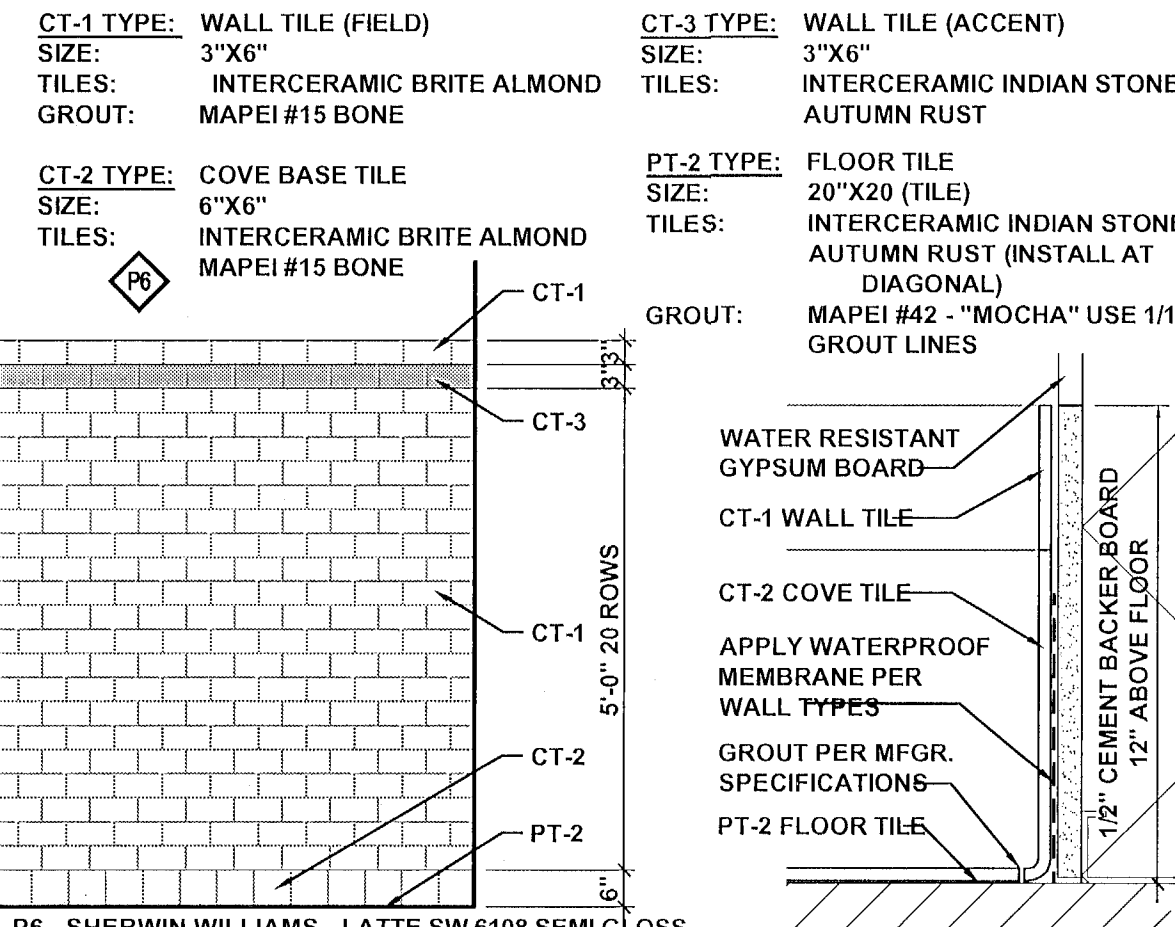
04 HAND DRYER SOLID SURFACE DETAIL

SCALE: 1/2" = 1'-0"



05 TOILET PARTITION DETAILS

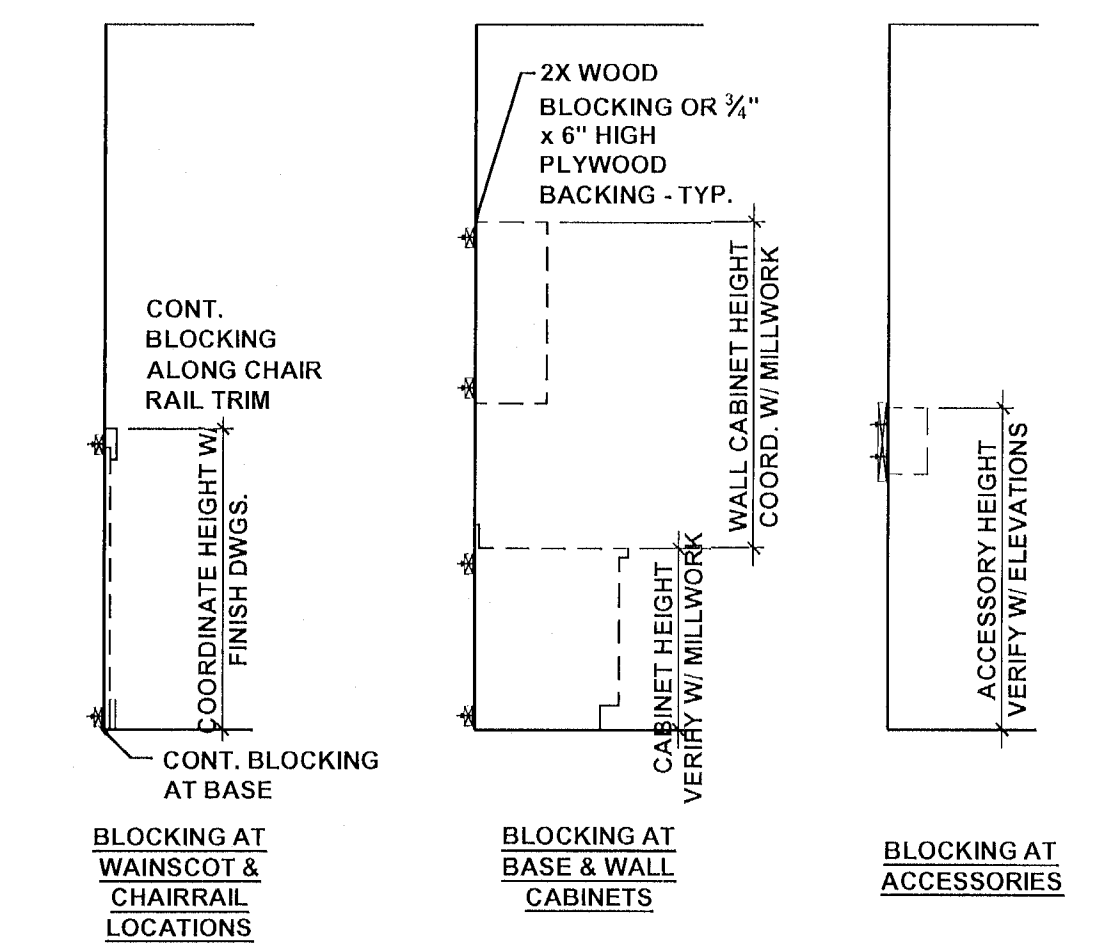
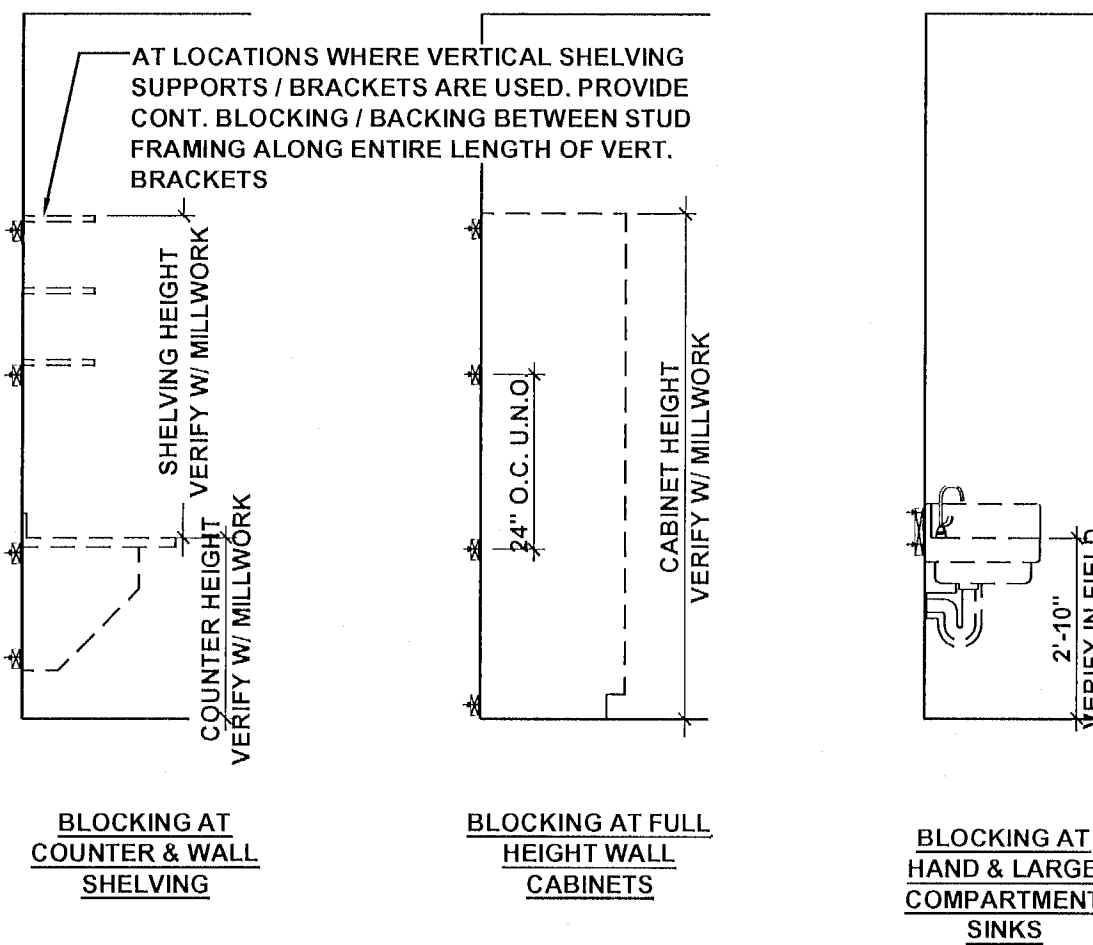
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02 RESTROOM WALL TILE

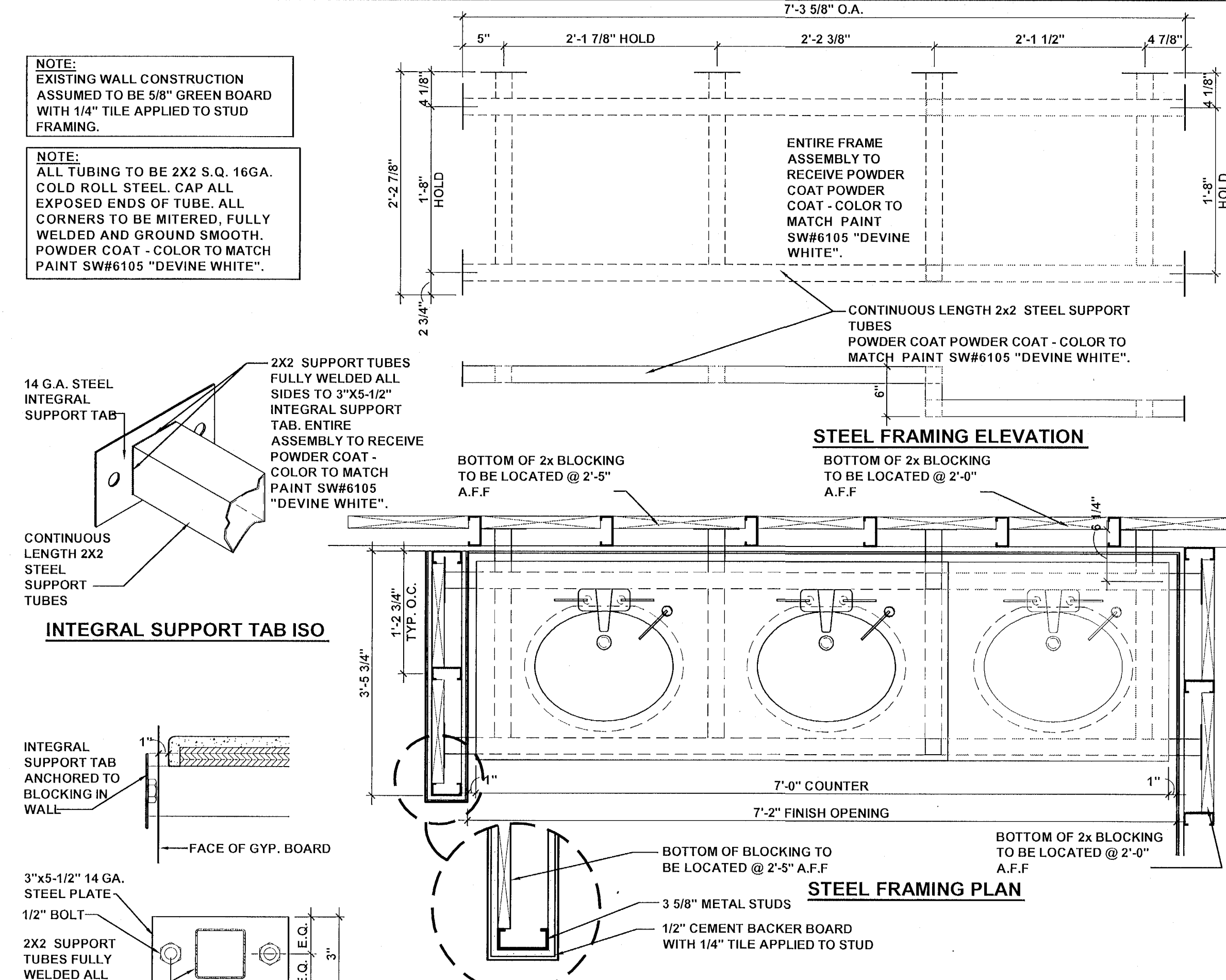
SCALE: 1/2" = 1'-0"

1. BLOCKING CONDITIONS SHOWN DO NOT ACCOUNT FOR ALL CONDITIONS THAT MAY EXIST ON THE PROJECT. THE CONTRACTOR IS TO ACCOUNT FOR ALL BLOCKING INDICATED IN ENTIRE CONTRACT DOCUMENT PACKAGE OR SPECIFICALLY REQUIRED BY THE MANUFACTURERS OF SPECIFIED PRODUCTS AND MATERIALS.
2. THE CONTRACTOR SHALL WALK THE SITE TO FINALIZE ALL LOCATIONS OF BLOCKING IN WALLS / CEILING PRIOR TO INSTALLATION OF GYPSUM WALLBOARD.
3. COORDINATE THE EXACT REQUIRED LINEAR FOOTAGE AND LOCATIONS OF BLOCKING WITH EACH SPECIFIC FIXTURE, ACCESSORY, EQUIPMENT, CASEWORK, AND MILLWORK. THE CONTRACTOR IS TO COORDINATE WITH MILLWORK ON ALL ITEMS TO BE SUPPLIED AND / OR INSTALLED BY CEC.
4. WHERE EXACT LOCATION OF ITEM REQUIRING BLOCKING WILL NOT BE DETERMINED UNTIL AFTER INSTALLATION OF THE GYPSUM WALLBOARD, EXTEND BLOCKING A MIN. OF 12" BEYOND EACH SIDE THE ESTIMATED LOCATION OF THE DESIGNATED ITEM AS INDICATED IN THE PLANS OR AS SPECIFIED BY MANUFACTURER.
5. ALL BLOCKING IS TO BE CONTINUOUS ALONG THE FULL LENGTH OF THE ITEM REQUIRING BLOCKING UNLESS NOTED OTHERWISE OR INDICATED BY MANUFACTURER.
6. WHERE SPECIFIC CODE RELATED OR MANUFACTURER LOAD REQUIREMENTS ARE REQUIRED, THE CONTRACTOR IS TO CONFIRM THE INSTALLATION OF THE REQUIRED BLOCKING MEETS OR EXCEEDS THE REQUIREMENTS OF THE CODE.



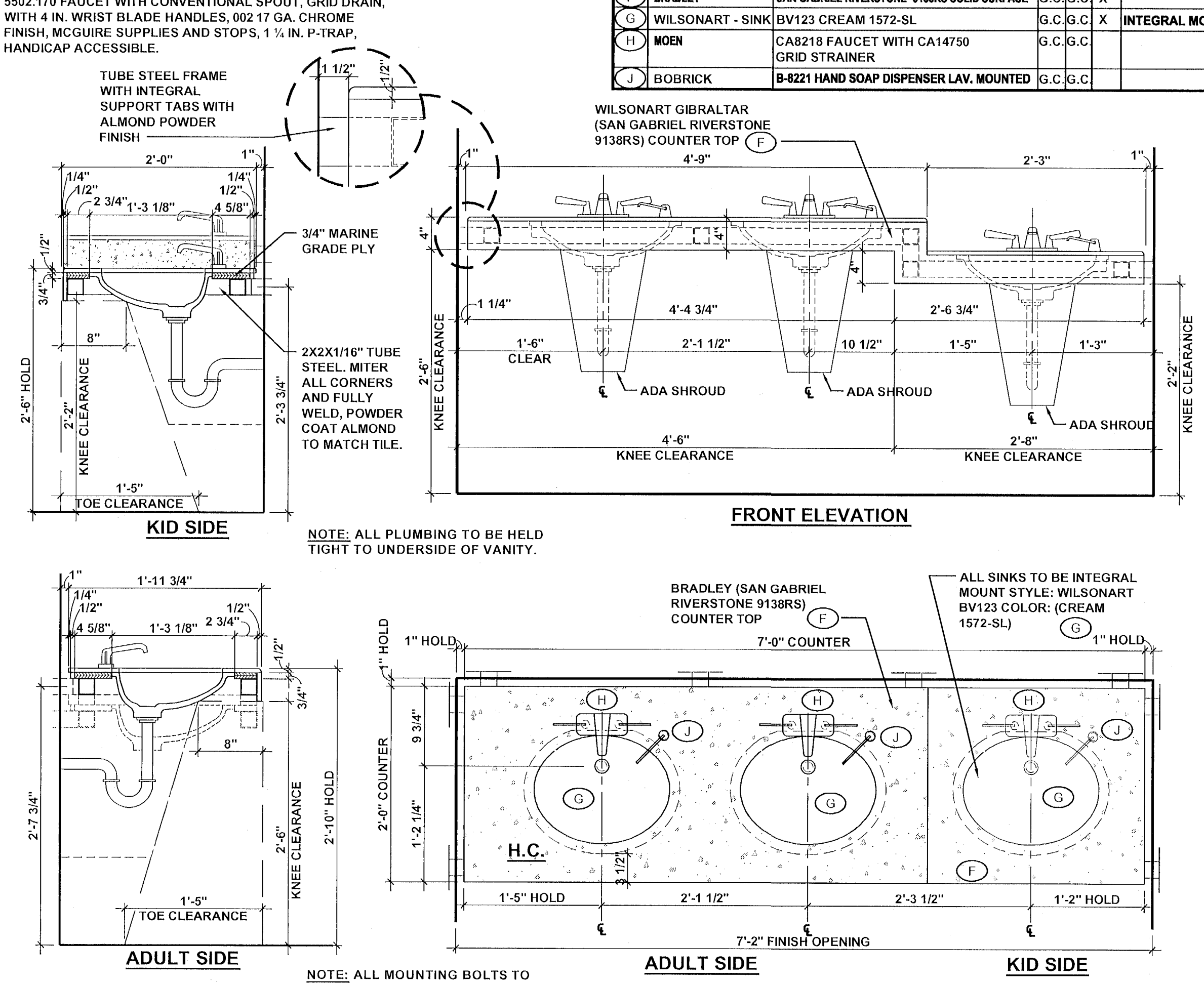
03 TYPICAL BLOCKING DETAILS

SCALE: N.T.S.



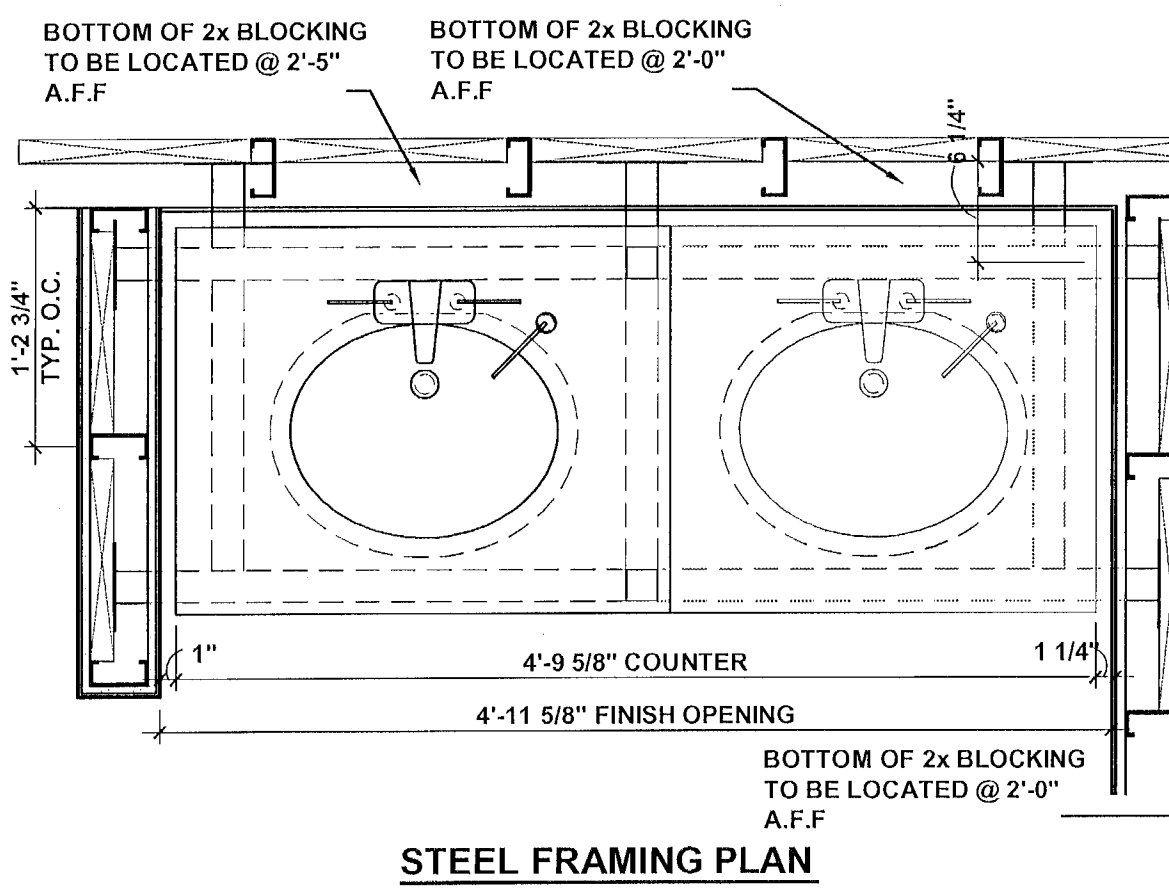
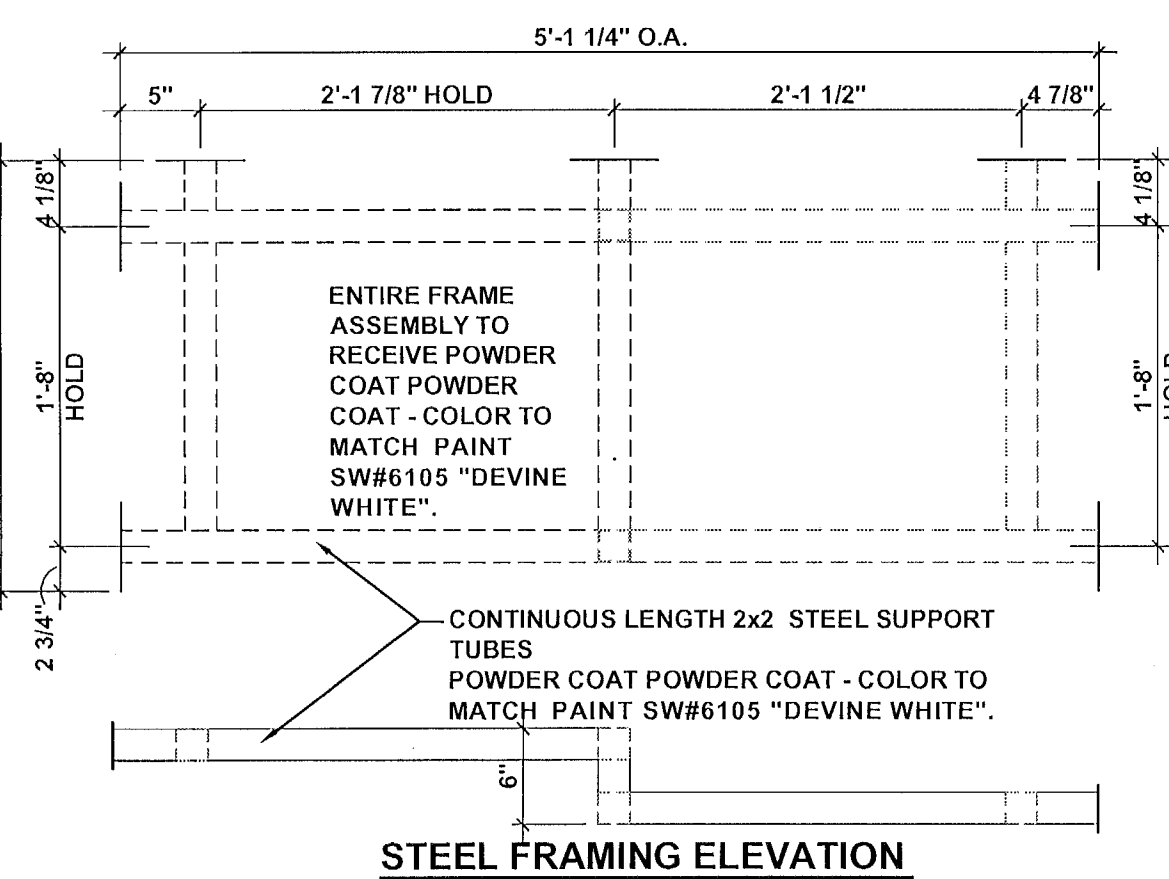
01 THREE-BOWL RESTROOM SINK DETAIL - 7'-2" WIDE (ACCESSIBLE)

SCALE: 1" = 1'-0"



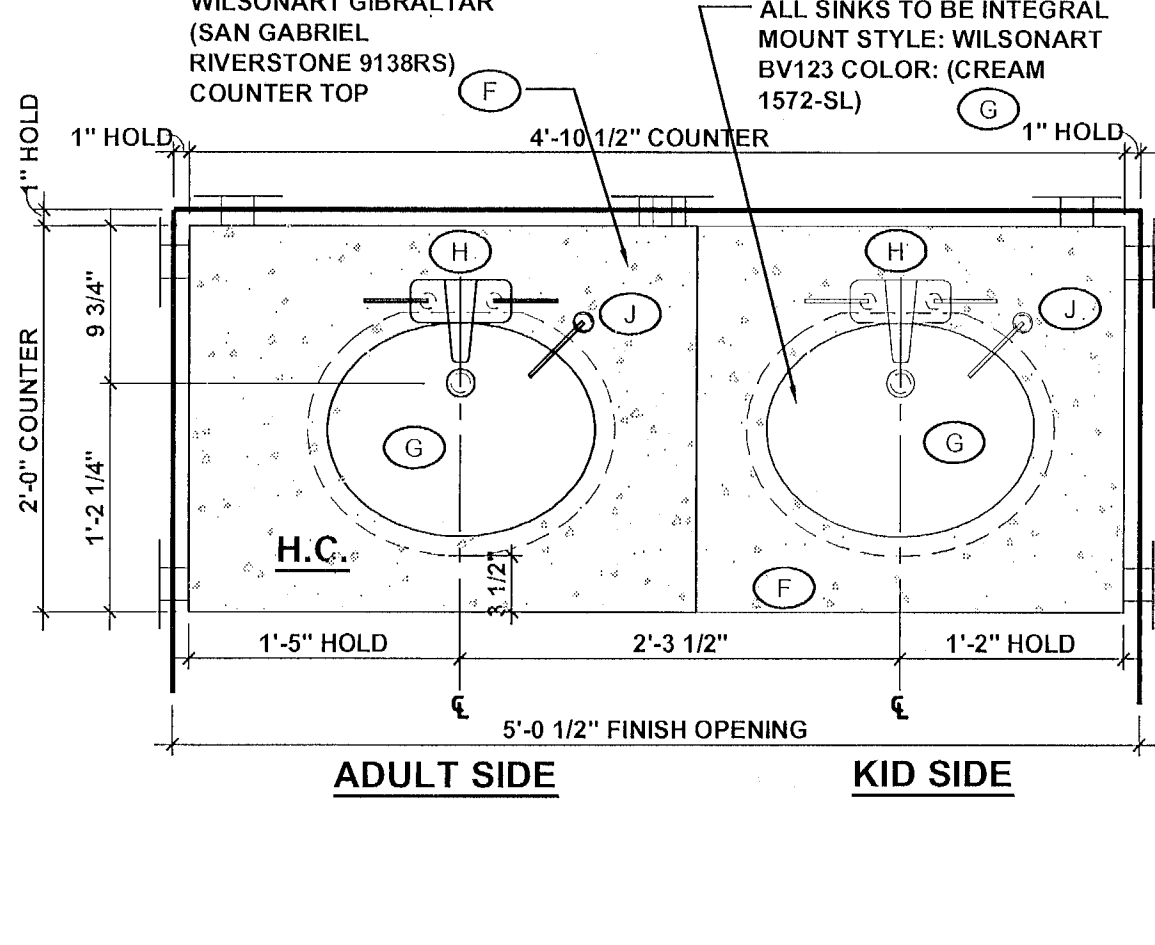
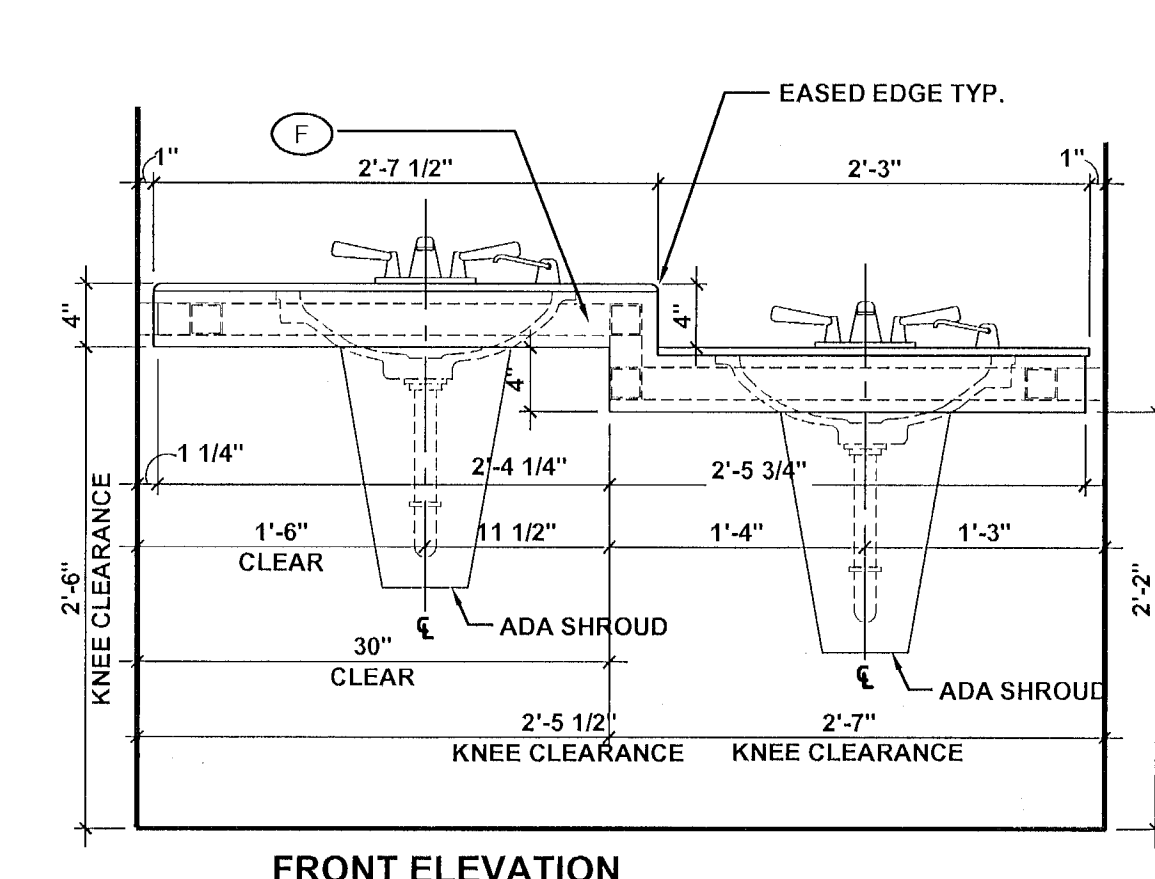
01 THREE-BOWL RESTROOM SINK DETAIL - 7'-2" WIDE (ACCESSIBLE)

SCALE: 1" = 1'-0"



6 TWO-BOWL RESTROOM SINK DETAIL - 4'-10" WIDE (ACCESSIBLE)

SCALE: 1" = 1'-0"

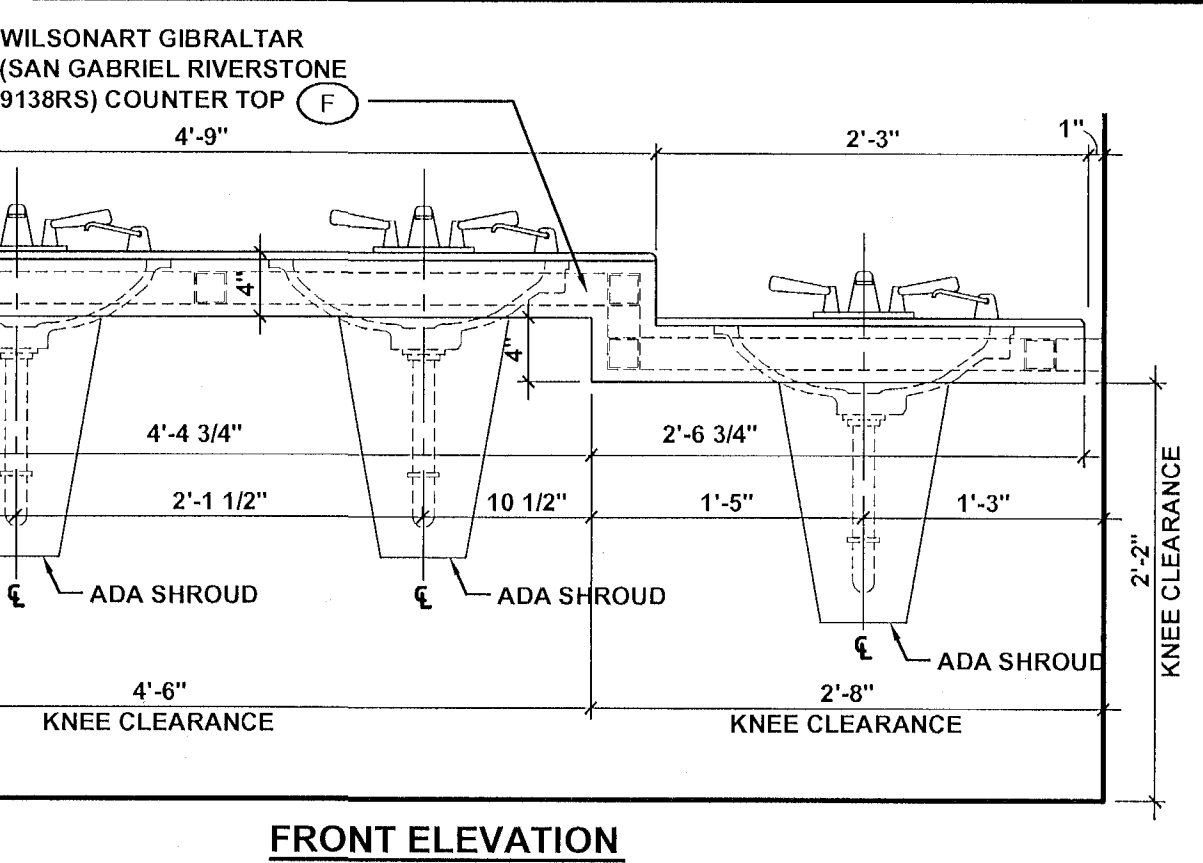


6 TWO-BOWL RESTROOM SINK DETAIL - 4'-10" WIDE (ACCESSIBLE)

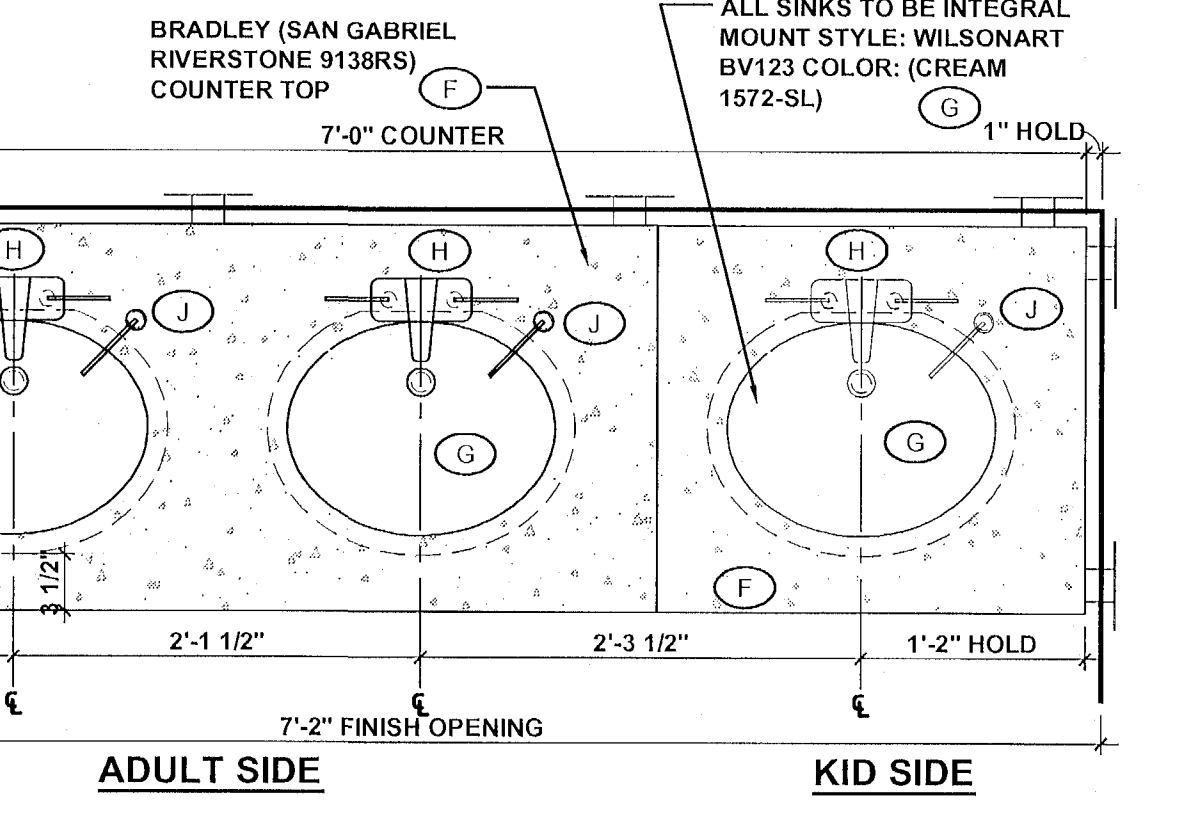
SCALE: 1" = 1'-0"

TYPICAL RESTROOM ACCESSORIES

MARK	MANUFACTURER	DESCRIPTION	FURNISHED BY	INSTALLED BY	REMARKS
F	BRADLEY	SAN GABRIEL RIVERSTONE-9138RS SOLID SURFACE	G.C.G.C.	X	
G	WILSONART	SINK	G.C.G.C.	X	INTEGRAL MOUN
H	MOEN	CAB218 FAUCET WITH CA14750 GRID STRAINER	G.C.G.C.		
C	BOBRICK	B-8221 HAND SOAP DISPENSER LAV. MOUNTED	G.C.G.C.		

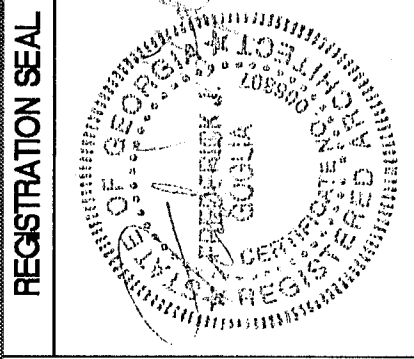


FRONT ELEVATION

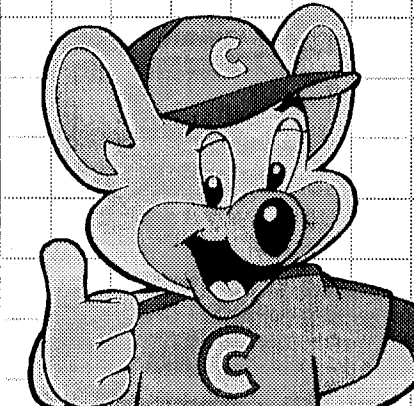


ADULT SIDE

KID SIDE



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WWW.FJGOGLIA.COM

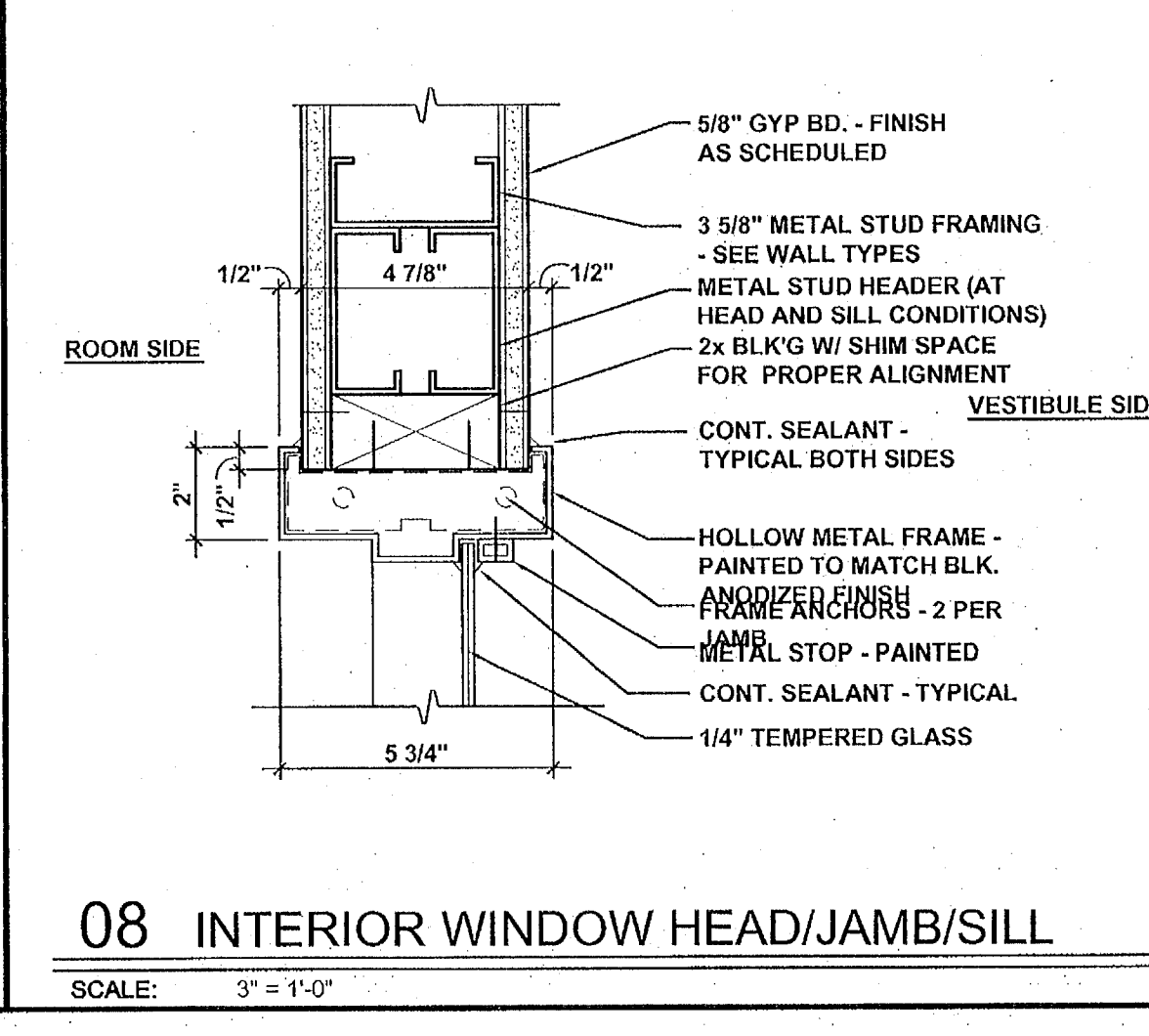
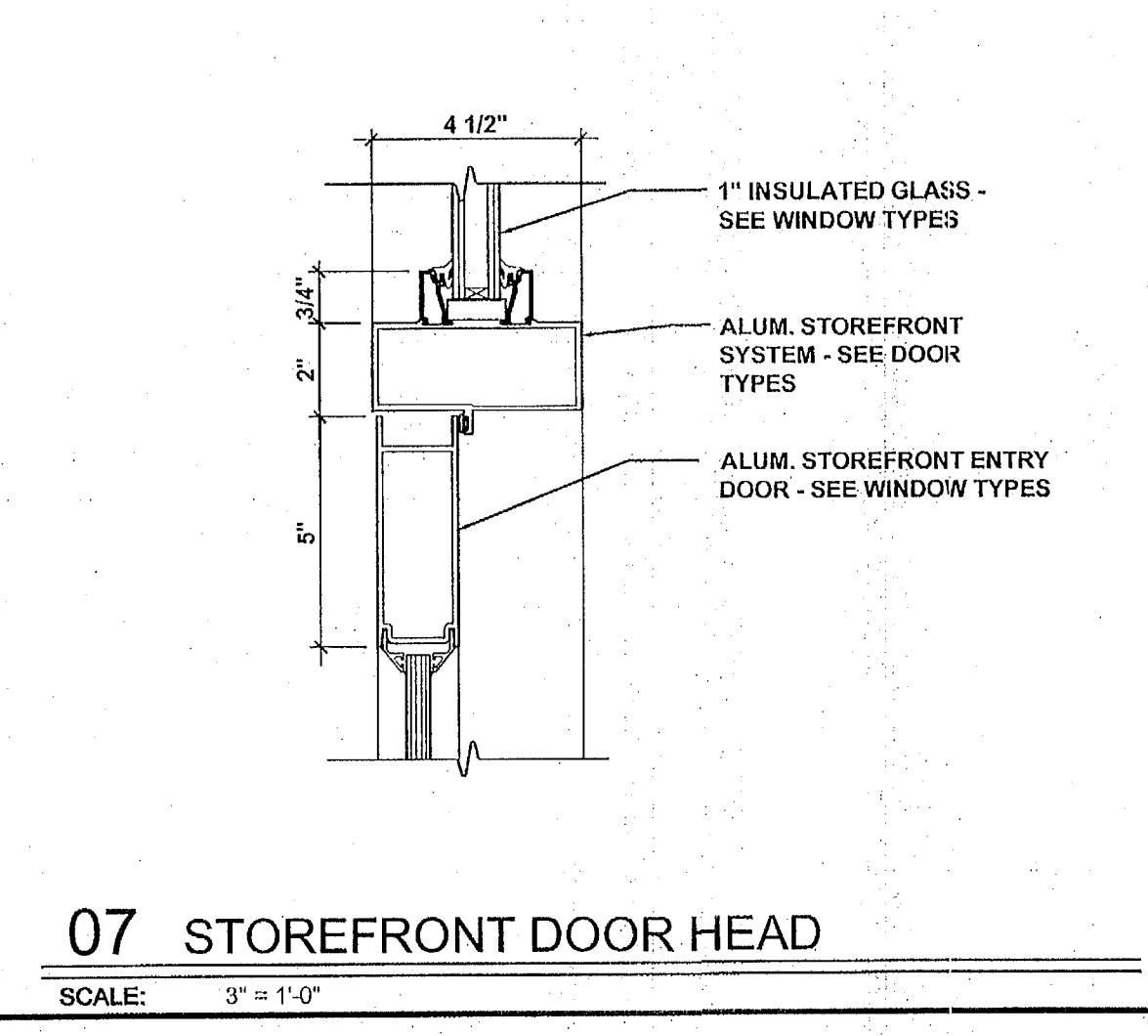
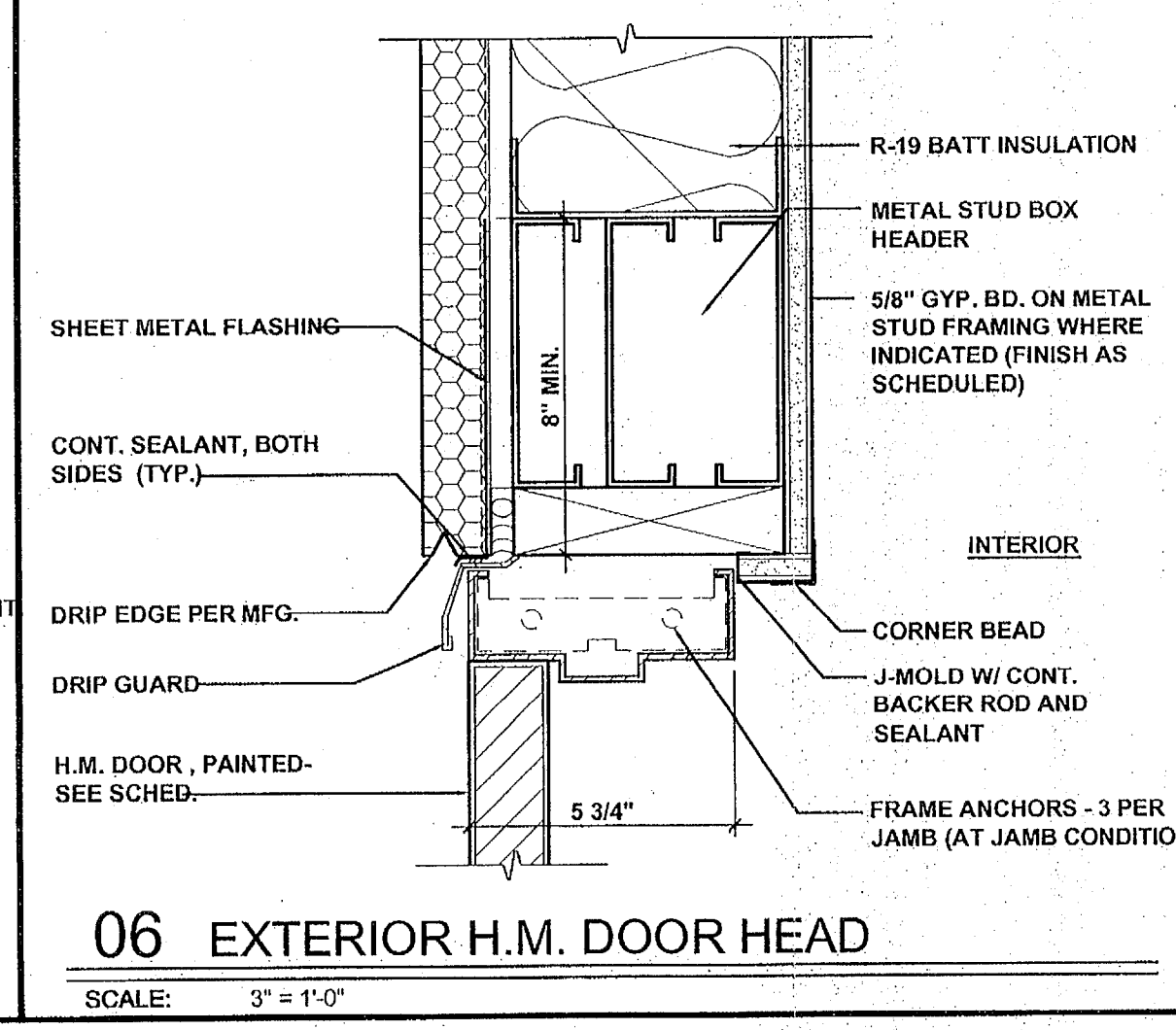
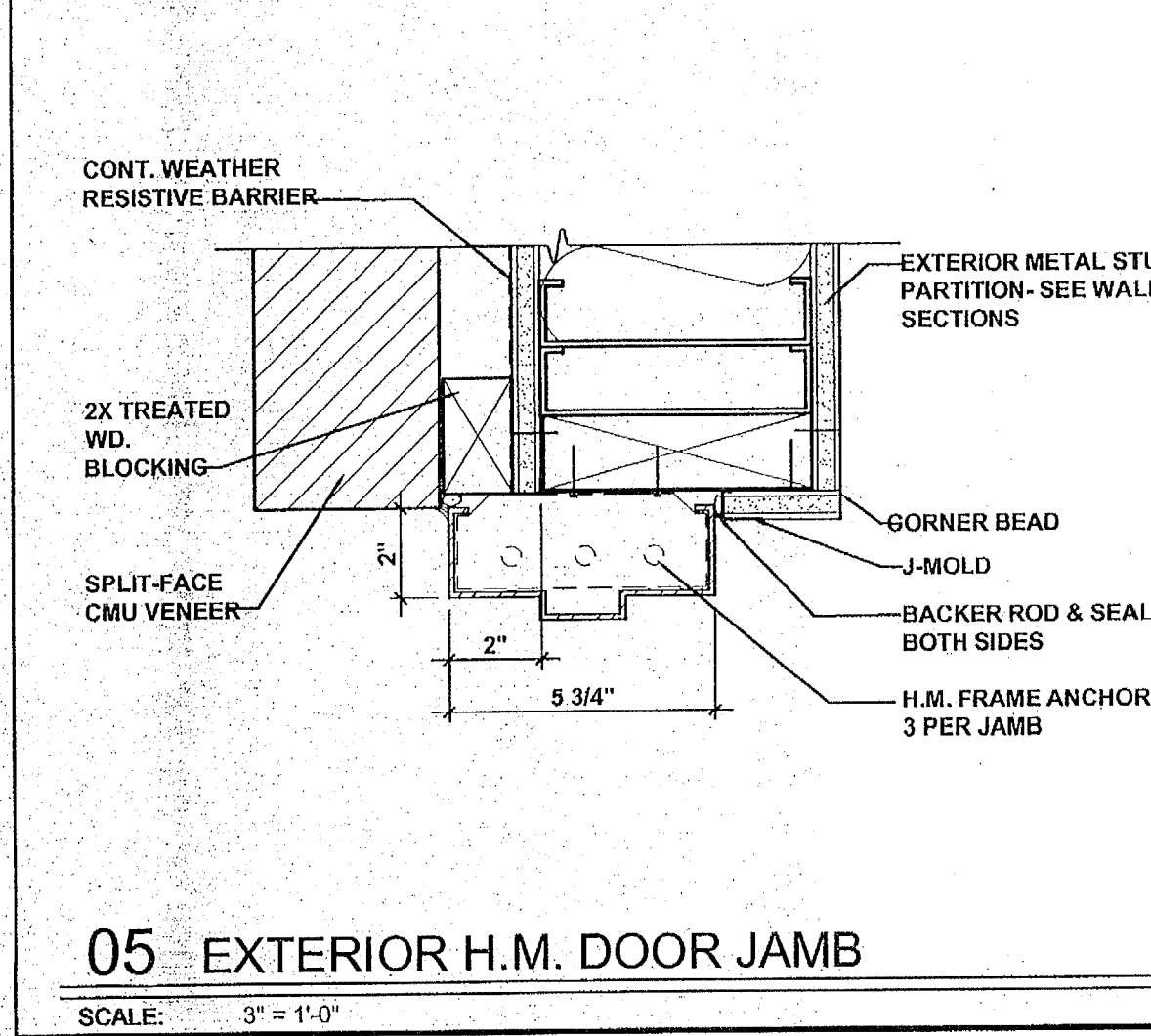
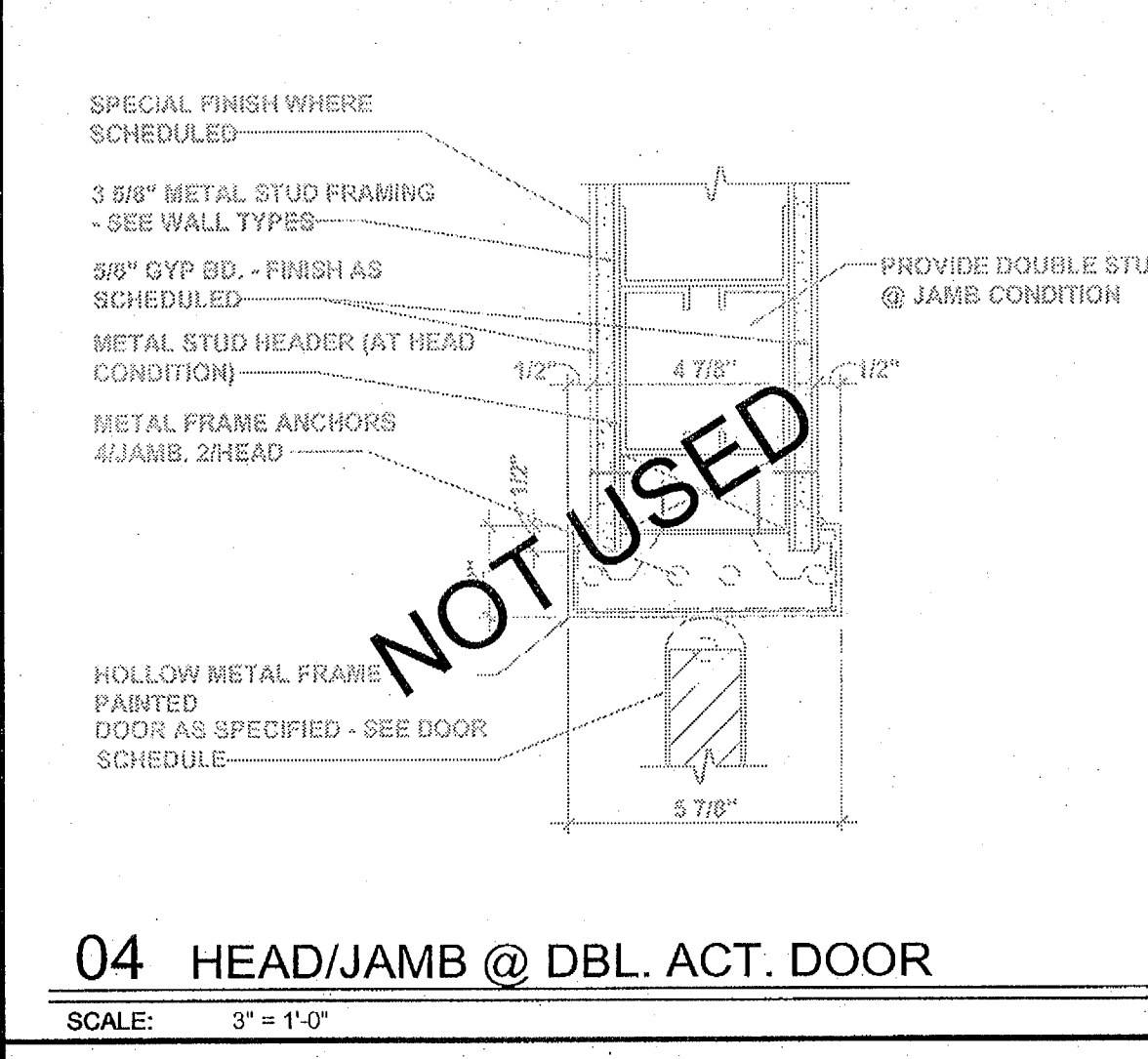
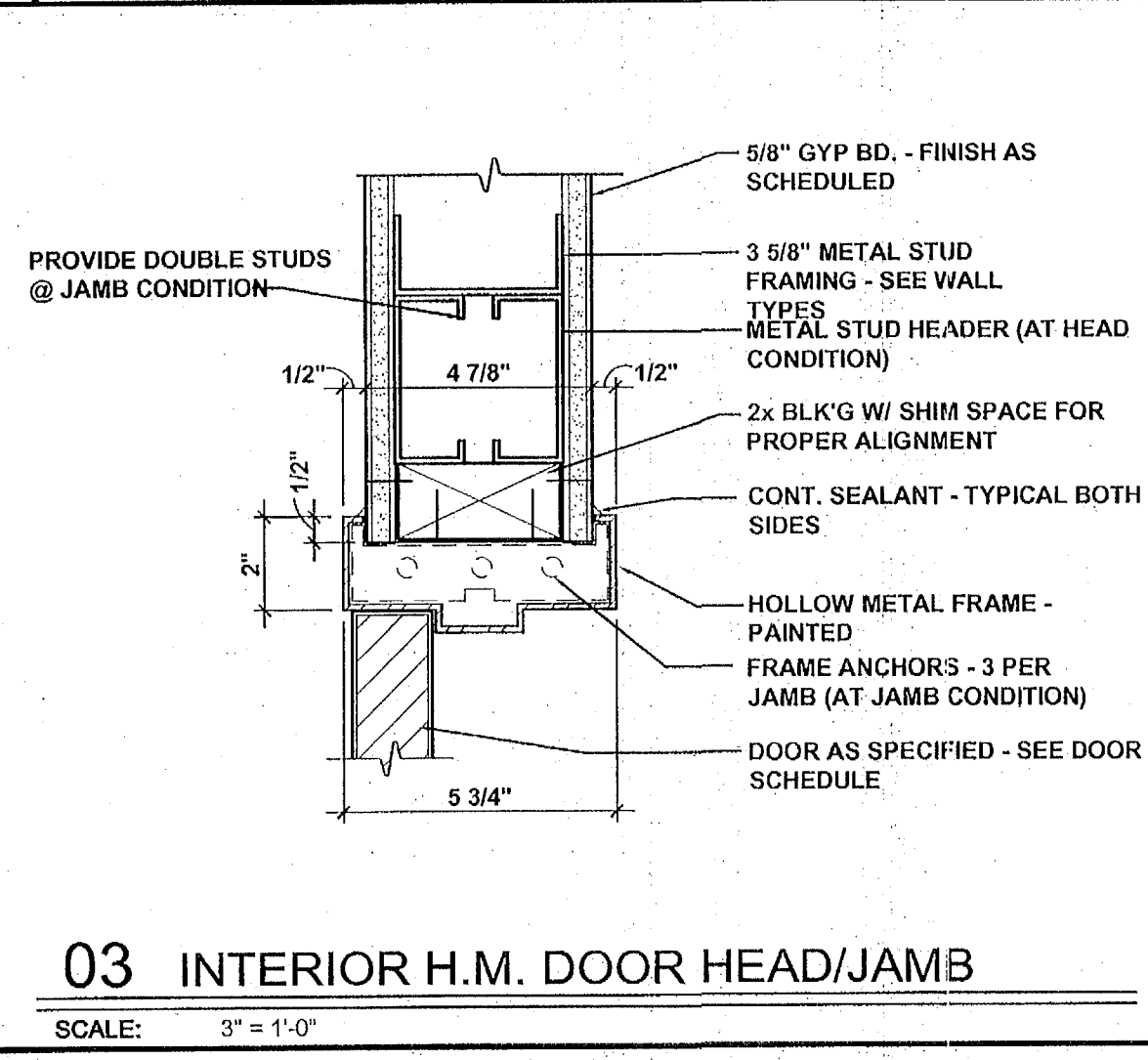
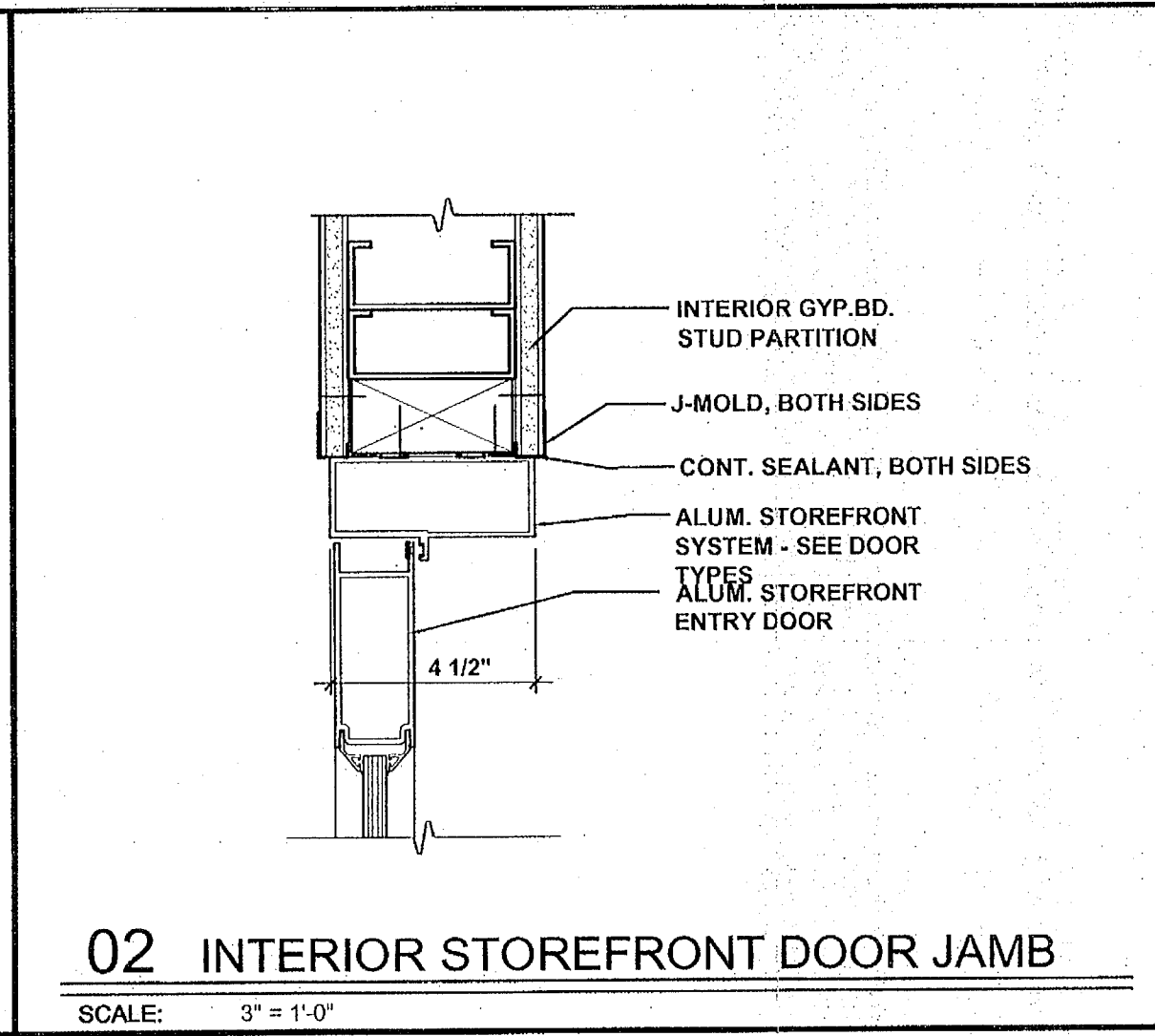
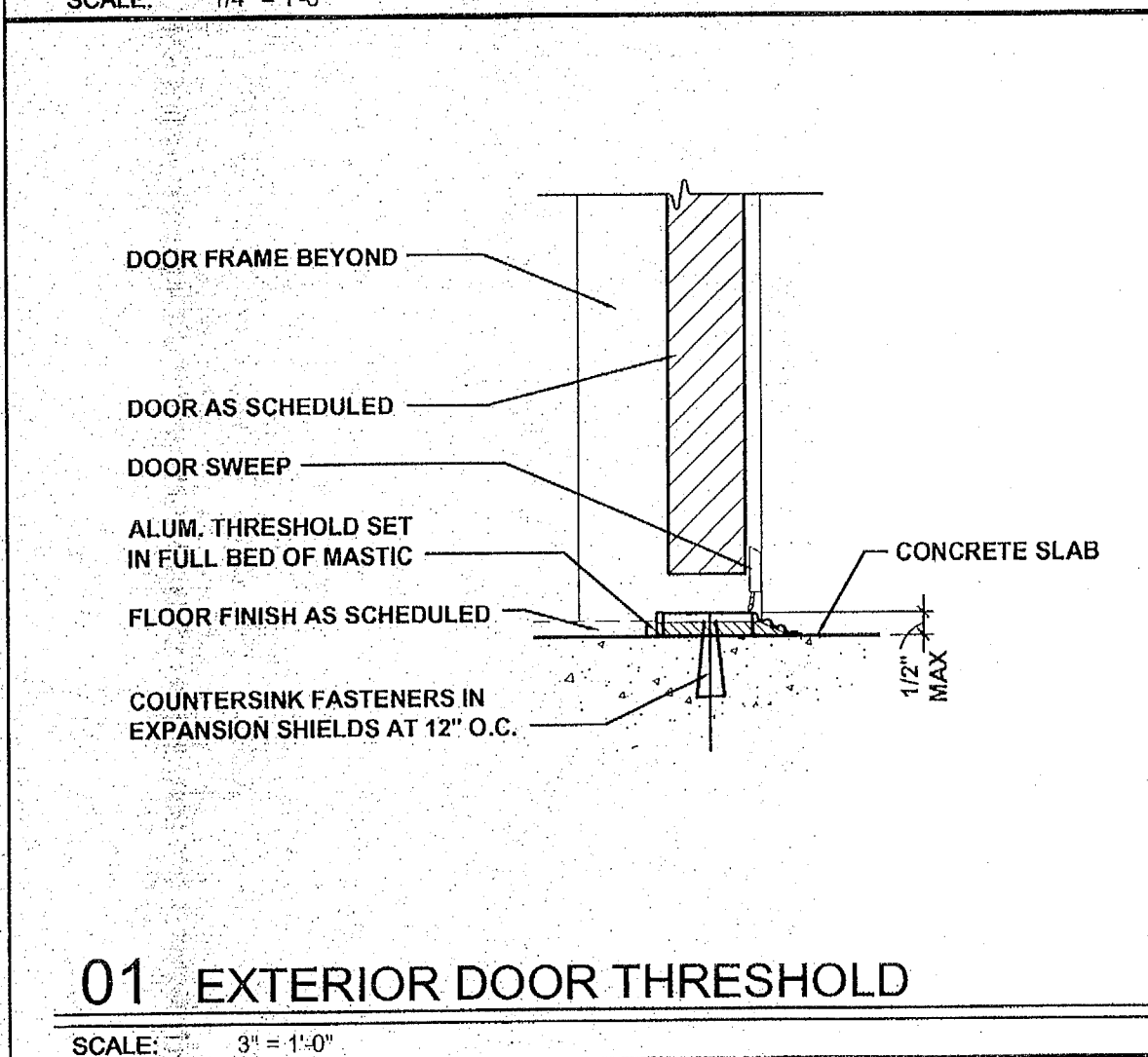
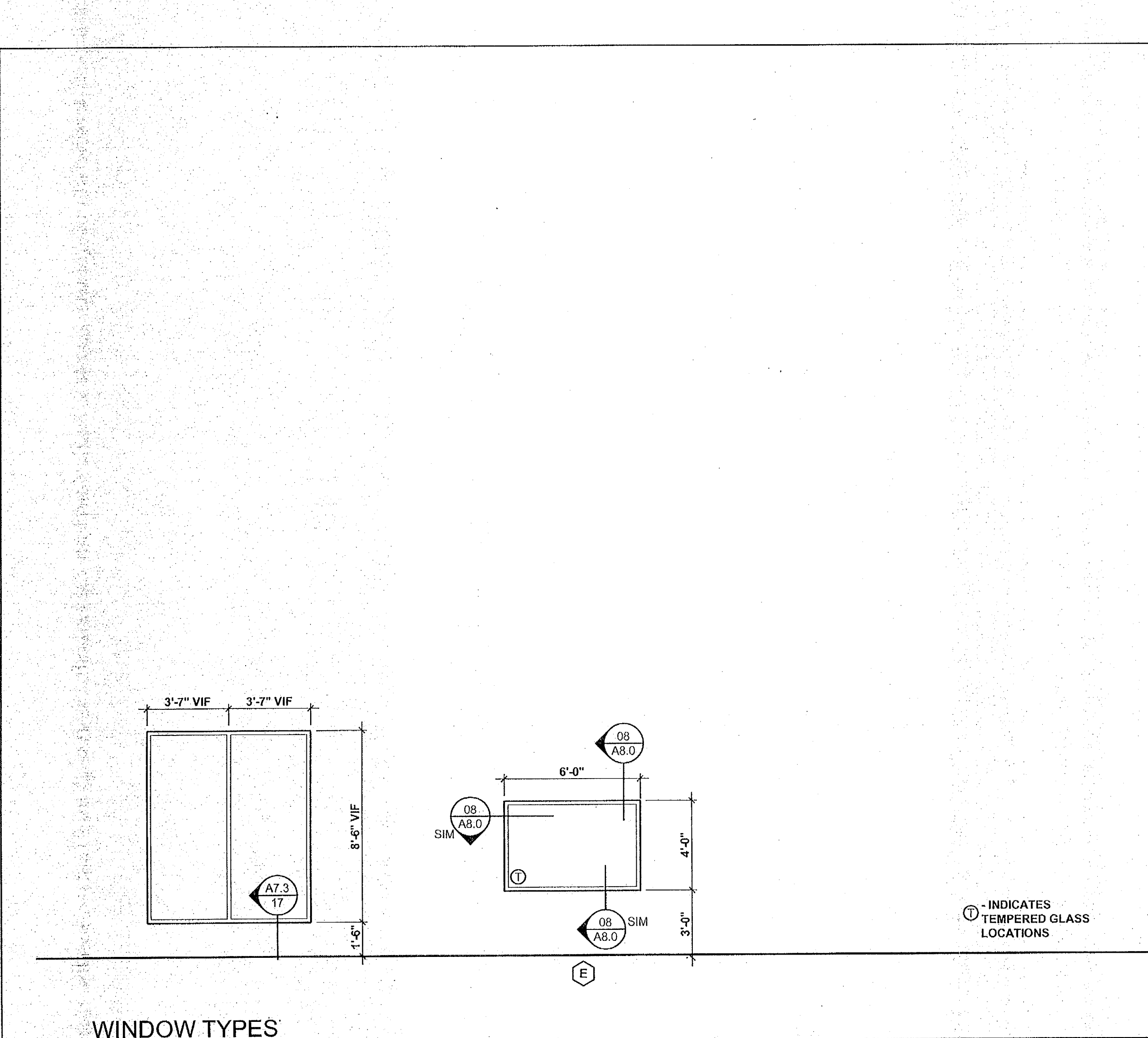


CHUCK CHEESE'S
RICHMOND PLAZA SHOPPING CENTER
3435 WRIGHTSBORO ROAD
AUGUSTA, GA 30909
STORE# 939

REV.	DATE	DESCRIPTION
1	03/11/11	ISSUE DATE
2		PROJECT NO. 101301
3		DRAWN BY: HH
4		CHECKED BY: RK

A7.5

INTERIOR DETAILS



DOOR SCHEDULE

DOOR #	DOOR LOCATION	OPENING SIZE	THICKNESS	DOOR				FRAME				SEAL REQ'D		DETAILS			REMARKS	
				TYPE	HARDWARE	FINISH		ALUMINUM	HM	FINISH		WEATHER	SOUND	LIGHT	JAMB	HEAD		SILL
						EXT	INT			EXT	INT							
01	MEN'S TOILET RM	3'-0"x7'-0"	1 3/4"	B	6	HPL	PL-2	X	P-3	P-3			03/A8.0	03/A8.0	-	PROVIDE SIGNAGE AS REQ'D BY CODE		
02	WOMEN'S TOILET RM	3'-0"x7'-0"	1 3/4"	B	6	HPL	PL-2	X	P-3	P-3			03/A8.0	03/A8.0	-	PROVIDE SIGNAGE AS REQ'D BY CODE		
03	W/H CLOSET	2@1'-6"x7'-0"	1 3/4"	C		PL-2	PL-2	X	P-12	P-12			03/A8.0	03/A8.0	-	DOUBLE DOORS, PROVIDE VENTING		
04	MERCH	3'-0"x7'-0"	1 3/4"	B	9	P-7	P-7	X	P-7	P-7			03/A8.0	03/A8.0	-			
05	VESTIBULE ENT.	3'-0"x7'-0" PR	1 3/4"	A	2	P.F.	(P-11)	X	P.F.	(D.BR)	X		02/A8.0	02/A8.0		EXISTING DOOR - RELOCATED		
													</					

ABBREVIATIONS:

PR - PAIR

D. BR. - DARK BRONZE

P.F. - PREFINISHED

P - PAINTED

P-2 WHITE WOOL SW1354 - USED ON FIRE EXIT DOORS AND FRAMES

P-3 WINDSOR GRAY SW1040 - USED ON INTERIOR DOOR FRAMES

P-7 EXTRA WHITE SW7006 - USED ON KITCHEN AND OFFICE DOORS AND FRAMES

P-11 HOLLYBERRY RED - USED ENTRY AND VESTIBULE DOORS

P-12 SAND SW2059 - USED ON EXTERIOR EXIT DOORS

PAINT FINISH: ALL PAINTED METAL SURFACES TO HAVE SEMI-GLOSS FINISH. RE: A2.1 AND A4.0 FOR COMPLETE PAINT SPECIFICATIONS

EXT - EXTERIOR

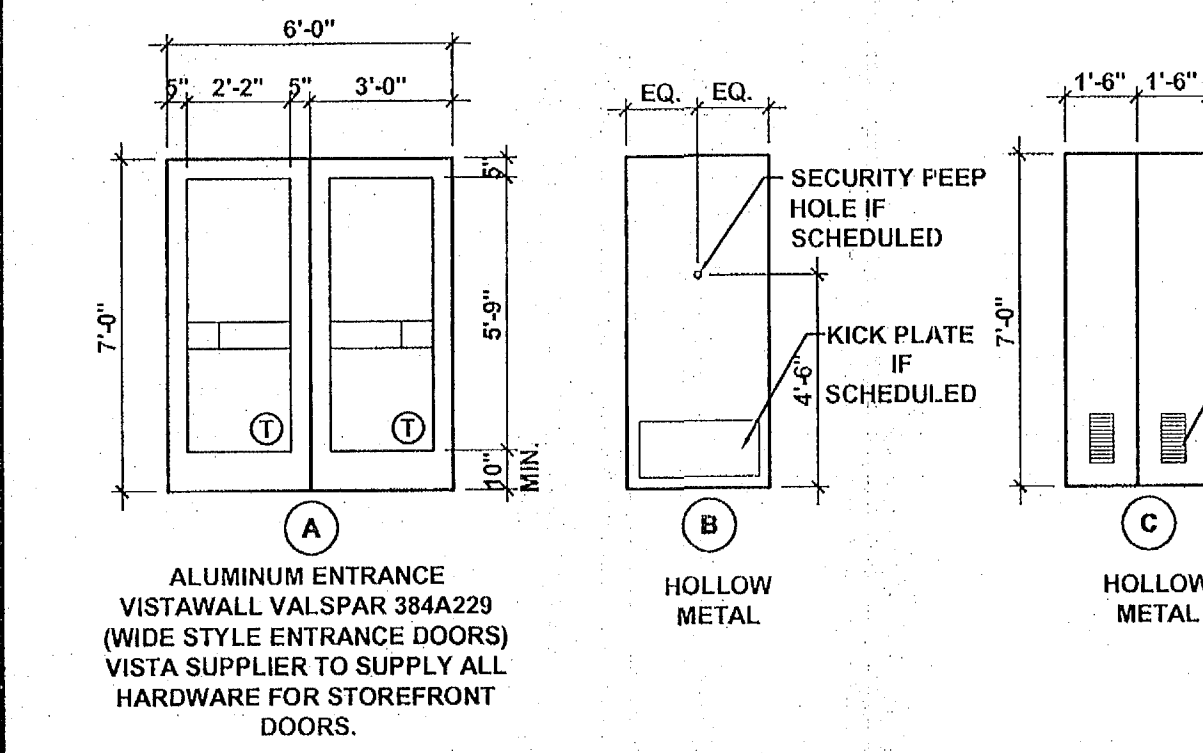
INT - INTERIOR

PL - PLASTIC LAMINATE

PL-1 - HOLLYBERRY RED

PL-2 - WILSONART KHAKI BROWN D50-60 (RESTROOM FACE ONLY)

HPL - HIGH PERFORMANCE PLASTIC LAMINATE (HOLLYBERRY RED)



HARDWARE SCHEDULE

HARDWARE SET NO.1 ENTRY / VESTIBULE DOORS		(834) OP-6 TOP PIVOT (FRAME) CLR FINISH	
1 EA.	VISTAWALL	(838) OP-7 TOP PIVOT (DOOR) CLR FINISH	
1 EA.	VISTAWALL	(805/838) OP-10 BOT. PIVOT (FR) CLR FINISH	
1 EA.	VISTAWALL	(848) OP-9 BOT. INTERNAL PIVOT CLR FINISH	
1 EA.	VISTAWALL	(12368) PH-21 YB PULL HANDLE CLR FINISH	
1 EA.	VISTAWALL	(142) PB-16 PUSH BAR CLR FINISH	
1 EA.	LCN	4841 SURFACE CLOSER CLR FINISH	

HARDWARE SET NO.2 TOILET ROOMS		HAGER	
3 EA.	HINGES	BB1270 4 1/2"X4 1/2" 260	
1 EA.	CLOSERS	1461P #SNB ALUM	LCN
1 EA.	PULL PLATE	H33E 4X16 US28	HAGER
1 EA.	PUSH PLATE	305 4X16 US28	HAGER
1 EA.	KICK PLATE	10"X2" LDW US28	HAGER
1 EA.	DOOR STOP	AS. REQ. FLOORWALL/HINGE	HAGER
1 EA.	FINGER GUARD	MKIA PUSH SIDE (BROWN)	FINGER SAFE
1 EA.	FINGER GUARD	MKIA PULL SIDE (BROWN)	FINGER SAFE

HARDWARE SET NO.3 MERCHANDISE / TECH ROOM DOOR		HAGER	
3 EA.	HINGES	BB1270 4 1/2"X4 1/2" 260	SCHLAGE
1 EA.	LOCK SET	ND80P RHO 626	SCHLAGE
1 EA.	CLOSER	1461PD #1 SNB ALUM	LCN
1 EA.	DOOR STOP	AS. REQ. FLOORWALL/HINGE	HAGER

HARDWARE SET NO.4 WATER HEATER CLOSET DOUBLE DOORS		HAGER	
6 EA.	HINGES	BB1270 4 1/2"X4 1/2" 260	SCHLAGE
1 EA.	LOCK SET	ND80P RHO 626	SCHLAGE
1 EA.	DUMMY TRIM	ND170 RHO 626	SCHLAGE
2 EA.	FLUSHBOLT	2830 260	HAGER
2 EA.	LOUVER GRK12H	L70WRX	NATIONAL GUARD
2 EA.	DOOR STOP	AS. REQ. FLOORWALL/HINGE	HAGER

KEY ALL LOCKS ON DAY OF TURNOVER. THE DOORS SHOULD BE KEYPED AS FOLLOWS:

ONE GRAND MASTER (ALL OF THE LOCKS CAN BE OPENED WITH THIS KEY), ONE KEY FOR ALL INTERIOR DOORS (COMPRESSOR ROOM IS CONSIDERED AN INTERIOR DOOR), ONE KEY FOR TECH ROOM (ALSO ON INTERIOR DOOR KEY), ONE KEY FOR COSTUME ROOM (ALSO ON INTERIOR DOOR KEY), ONE KEY FOR FRONT DOOR.

COPIES OF EACH KEY

GRAND MASTER (2)

TECH ROOM KEY (6)

FRONT DOOR KEY (6)

INTERIOR DOOR KEY (6)

COSTUME ROOM KEY (3)

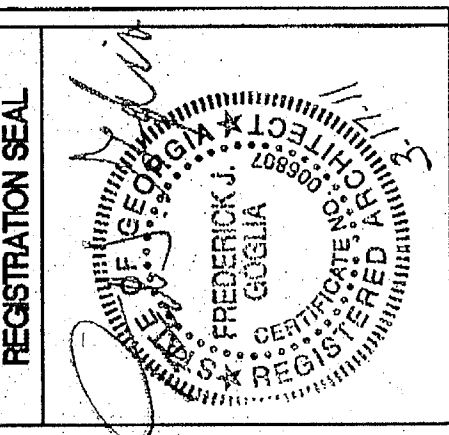
GENERAL HARDWARE NOTES:

1. ALL HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE (I.E. LEVER HANDLE) THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE AS OUTLINED PER LOCAL CODE REQUIREMENTS.

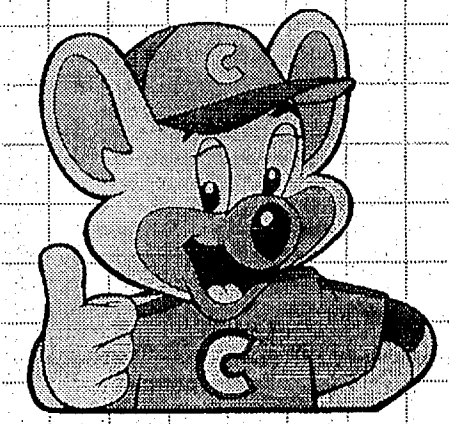
2. THE MAXIMUM PRESSURE FOR ALL INTERIOR AND EXTERIOR ACCESSIBLE DOORS SHALL BE 5-POUNDS OF PRESSURE FOR BOTH PUSH OR PULL FUNCTIONS. ALL FIRE ACCESS DOORS SHALL BE PERMITTED TO OPERATE AT 15-POUNDS MAXIMUM PRESSURE FOR BOTH PUSH AND PULL FUNCTIONS.

3. THE BOTTOM 10" OF ANY ACCESSIBLE DOOR SHALL BE A SMOOTH, UNINTERRUPTED SURFACE THAT ALLOWS THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

4. DOOR CLOSERS ON ALL ACCESSIBLE DOORS SHALL BE SET SO THAT IT TAKES AT LEAST 3-SECONDS TO CLOSE FROM AN OPEN POSITION OF 70-DEGREES TO WITHIN 3" OF THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.



FREDERICK J. GOGLIA
 ARCHITECT, NCARB, ISP
 1950 CRAIG ROAD, SUITE 300
 ST. LOUIS, MO 63146
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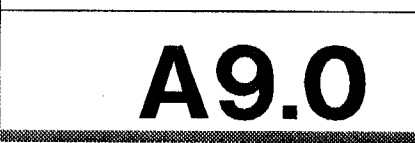


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 AUGUSTA, GA 30909
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REV	DATE	DESCRIPTION
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DRAWN BY: LRE	CHECKED BY: RK	
ISSUE DATE: 03/11/11		

A8.0

DOOR AND WINDOW SCHEDULE



EXAMPLE: A9.24 = 24



NEW BOOTH SEATING & TABLE.



EXISTING BOOTH SEATING & TABLE.



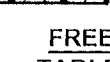
RELOCATED BOOTH SEATING & TABLE.

NOTE: ON CENTER DIMENSIONS ARE FROM BOOTH BACK TO BOOTH BACK.

EQUIPMENT

- WALL MOUNTED STROBE - MOUNTAS REQUIRED BY CODE AND LOCAL FIRE DEPARTMENT
- WALL MOUNTED THERMOSTAT @ 52" A.F.F.
- RECESSED WALL MOUNT FIRE EXTINGUISHER.
- WALL MOUNT FIRE EXTINGUISHER.
- EMERGENCY PULL SWITCH
- FIRE ALARM CONTROL PANEL

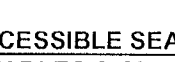
FREE STANDING TABLES & CHAIRS



42"

4 SEATER 6 SEATER

ACCESSIBLE SEATING TABLES & CHAIRS



48" 60" 19"

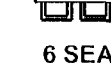


42" 60" 19"

SEATING BOOTHS



24"



36"



42"

2 SEATER 4 SEATER 4 SEATER



56"



42" x 24"

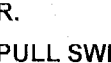
6 SEATER 3 SEATER



60" x 42"

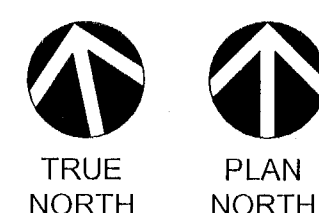


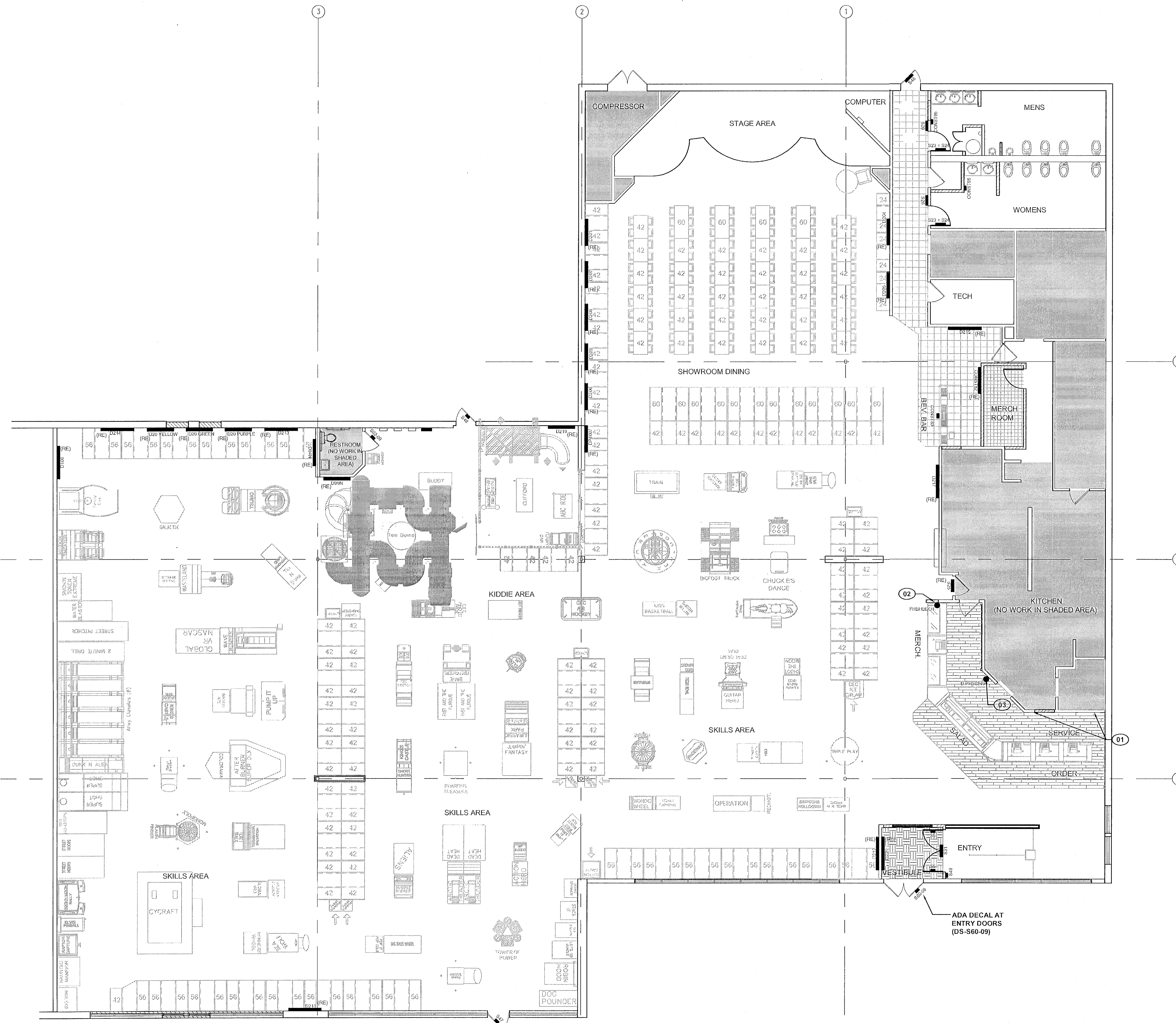
78" x 24"



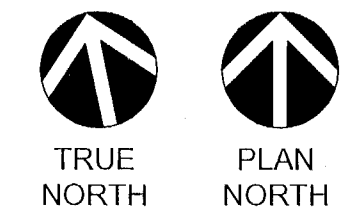
56" x 42"

5 SEATER 3 SEATER 5 SEATER





01 DECOR PLAN
SCALE: 1/8" = 1'-0"



DECOR PLAN KEYNOTES

EXAMPLE: A9.24 = 24

A9.1.01 MENU BOARDS: INSTALL MENU BOARDS, RECESSED 3" INTO WALL, PROTRUDING 1" FROM FACE OF WALL. VERIFY DEPTH OF RECESS WITH SIGN COMPANY PRIOR TO INSTALLATION. PROVIDE POWER SUPPLY TO 3 INTERNALLY LIT MENU BOARDS AS SPECIFIED BY SIGN COMPANY. SEE DETAIL 11/A7.3

A9.1.02 BALLOON HANGER: PROVIDE AND INSTALL BALLOON HANGER. SEE FURNISHINGS PLAN FOR LOCATIONS.

A9.1.03 COTTON CANDY HANGER: PROVIDE AND INSTALL TWO BLACK AND BRASS COTTON CANDY HANGERS, SEE FURNISHINGS PLAN FOR LOCATION, MOUNTED @ 5'-6" A.F.F..

A9.1.04 MARKETING BOARD: INSTALL RECESSED MARKETING BOARD TO BE MOUNTED @ +52" ABOVE FINISH FLOOR. PROVIDE POWER AS REQUIRED.

GENERAL NOTES

- DECOR: G.C. TO INSTALL NEW ARTWORK, DECOR AND COAT HOOKS AS INDICATED. G.C. TO INSTALL MATCHING CORNER GUARDS AS NEEDED. FINAL LOCATION TO BE DETERMINED BY G.C.E. ENTERTAINMENT INC. PRIOR TO CONSTRUCTION.
- SAFETY ITEMS: INSTALL FIRE EXTINGUISHERS, ALARMS, PA CONTROLS, MOTION DETECTORS, EMERGENCY LIGHTING, THERMOSTATS, ETC., AS REQUIRED BY LOCAL FIRE AND/OR BUILDING AUTHORITIES. INSTALLATION OF NEW ART WORK AND DECOR SHALL NOT BE IN CONFLICT. UNSPECIFIED LOCATIONS FOR NON LIFE SAFETY ITEMS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION. UNSPECIFIED LOCATIONS FOR LIFE SAFETY ITEMS SHALL BE VERIFIED WITH LOCAL FIRE AND/OR BUILDING AUTHORITIES PRIOR TO INSTALLATION.
- REFERENCE DETAIL 12/A7.4 FOR TYPICAL BOOTH DIVIDER PANELS.
- TABLE TOP SPLASH IS REQUIRED AT ALL LOCATIONS W/O CENTER BOOTH DIVIDER PANELS.
- BOOTH VENDOR TO VERIFY EXACT COUNT AND SEATING CONFIGURATIONS WITH OWNER PRIOR TO ORDERING.

DECOR SCHEDULE

DECORATION SCHEDULE				LOCATION:	
DATE:				DATE:	
Item #	Qty	Description	Unit	Exists	Remarks
D-D19	1	Quad-Warhol	BWC	X	Center on booth
D-D20	1	Tri-Warhol	BWC	X	Center on booth
D-D31N	1	Men In Black	BWC		
D-D41N	1	Super Heroes	BWC		
D-D51N	1	Ice Hockey	BWC		
D-D71N	1	Soccer	BWC		
D-D91N	1	Toddler Group Picture	BWC		
D-D91N	1	Toddler Fire Engine	BWC	X	Center on wall
D-D21B	1	Italy Postcard	BWC		
D-D22B	1	Wild West Postcard	BWC		
D-D23B	1	Big City Postcard	BWC		
D-D24B	1	Hollywood Postcard	BWC		
D-D25B	1	Tropics Postcard	BWC		
D-D10	1	Munch Underwater Phone Decor	BWC		
D-D101	1	New Chuck Portrait	BWC		
D-D102	1	New Helen Portrait	BWC		
D-D103	1	New Munch Portrait	BWC		
D-D104	1	New Pasqually Portrait	BWC		
D-D105	1	New Jasper	BWC		
D-D106	1	Spideeman	BWC	X	Center on wall
D-D200	1	Family Picture, 36 x 53 (Vertical - V)	BWC		
D-D201	1	Showroom Pic, Play2B, 48 x 72 (V)	BWC	X	Center on wall
D-D202	1	Showroom Pic, Smiles 2B, 48 x 72 (V)	BWC	X	Center on wall
D-D203	1	Showroom Pic, Celebration2B, 48 x 72 (V)	BWC	X	Center on booth
D-D204	1	Showroom Pic, Family 48 x 72 (V)	BWC	X	Center on booth
D-D205	1	Showroom Pic, Memories, 48 x 72 (V)	BWC	X	Center on booth
D-D206	1	Showroom Pic, Winnings, 48 x 72 (V)	BWC	X	Center on booth
D-D207	1	Showroom Pic, Laughs, 48 x 72 (V)	BWC	X	Center on booth
D-D208	1	Showroom Pic, Friends, 48 x 72 (V)	BWC	X	Center on booth
D-D211	1	Ambass of Fun, 36 x 60 (V)	BWC	X	Center on wall
D-D212	1	King of Cool, 36 x 60 (V)	BWC	X	Center on wall
D-D213	1	Titan of Tokens (HORIZONTAL - H)	BWC	X	Center on wall
D-D214	1	Grand Marshal (H)	BWC	X	Center on wall
D-D215	1	Garden Fresh #1, 60 x 48 (H)	BWC	X	Center on wall
D-D216	1	Garden Fresh #2, 60 x 48 (H)	BWC	X	Center on wall
D-D217	1	Pizza Art, 60 x 48 (H)	BWC	X	Center on wall
D-D218	1	Silicone Pizza Display	WAS		
D-D219	1	PBS Art, 44 x 49 (V)	BWC	X	Center on wall
D-D221	1	3D Gold Token, 48" Diameter	Prog	X	Center on wall
D-D222	1	Gold Token, 24" (set of three)	Prog	X	Center on wall
D-D223	1	Ovenbaked Tickets, 42 x 24 (V)	Prog	X	Center on wall
D-D225	1	Chuck E Portrait, 30 x 48 (V)	BWC		
D-D226	1	Helen Portrait, 30 x 48 (V)	BWC		
D-D227	1	Munch Portrait, 30 x 48 (V)	BWC		
D-D228	1	Jasper Portrait, 30 x 48 (V)	BWC		
D-D229	1	Pasqually Portrait, 30 x 48 (V)	BWC		
D-PHS0249	1	Cotton Candy Hanger	Prog	X	
D-H4001	1	Balloon Hanger	Prog	X	
D-P4007	1	Marketing Light Boxes (V)	SPT	X	

NOTE: All decorations, new and used, are installed by contractor. Please locate per elevations, secure using glue (silicone) and anchors, along with cleats provided. If in doubt please hold for direction at walk thru inspection. When direction is centered on light wash it is expected that light location match plans unless otherwise noted. Decor is placed vertically with 1/3 remaining space below and 2/3 above.

SIGNAGE SCHEDULE

SIGNAGE SCHEDULE				LOCATION: XXXXX #XX	
DATE:				DATE:	
Item #	Qty	Description	Unit	Exists	Remarks
S1	1	Entrance Sign (Hours of Operation)	Ajax	X	Exterior of Building
S5	2	Enter and Exit Logo Decals	Ajax	X	Vestibule doors
S10B	1	Menu Header	Prog		
S10SM	1	Small Menu Header	Prog		
S22	1	Restroom Directional	Prog		
S23	2	Restroom Marquees (Men & Women)	Prog	X	SEE 10/A5.0
S24	2	Restroom Ovals (Chuck & Helen)	Prog	X	SEE 10/A5.0
S25	1	Kitchen Directional	Prog	X	Center on header
S26	2	ADA Signs (Plastic)	SPT	X	SEE 10/A5.0
S28	1	Logo (18" Round Cool Chuck)	Prog		
S31	1	Logo (26" Cool Chuck)	Prog	X	Center on header
S32	1	Logo (38" Cool Chuck)	Prog		
S47	1	Exit Only Decal	Ajax	X	5'-0" A.F.F.
S48	2	Exit Only Sign	Ajax	X	5'-0" A.F.F.
S49	1	Occupancy Sign (Total)	Ajax	X	10' Below Ceiling
S53	1	Delivery Sign	Ajax		
S54	1	CEC Does Not Discriminate (CA only)	Ajax		
S55	1	Alcohol Health Warning (CA only)	Ajax		
S56	1	Making Magic	Ajax		
S58	1	Notice: Token Sign (CA only)	Ajax		
Const62(S50)	1	License Board	Prog	X	10' Below Ceiling
Const63(S15)	1	Wet Floor Sign	SPT	X	Bottom of sign 12" A.F.F.
Const64(S24B)	1	Large Menu Boards	CLEA		
Const65(S23B)	1	Small Menu Boards	CLEA		
SR2	2	Coat Rack	MIDW		
SR3	3	Coat Rack	MIDW		
SR4	4	Coat Rack	MIDW		
SR6	6	Coat Rack	MIDW		
SR8	8	Coat Rack	MIDW		

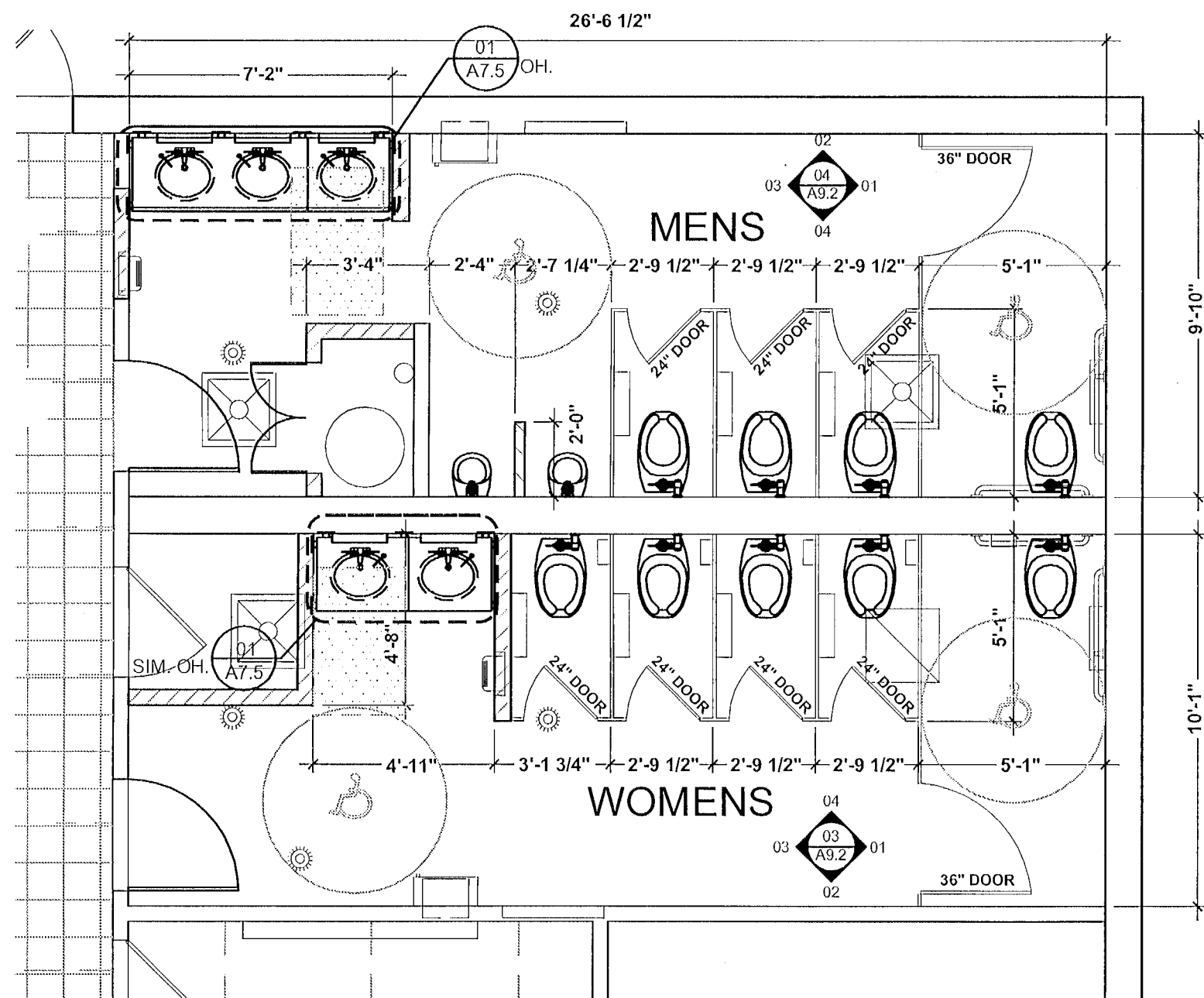
NOTE: All signage, new and used, is installed by contractor. Please locate per elevations. Secure using glue (silicone) and anchors, along with cleats provided. If in doubt, please hold for direction at walk thru inspection. When direction is centered on light wash it is expected that light location match plans.

REGISTRATION SEAL
FREDERICK J. GOGLIA
ARCHITECT, N.CARB. 18P
1950 CRAIG ROAD, SUITE 300
PH. (314) 415-2400 FAX (314) 415-2300
www.fjcgi.com

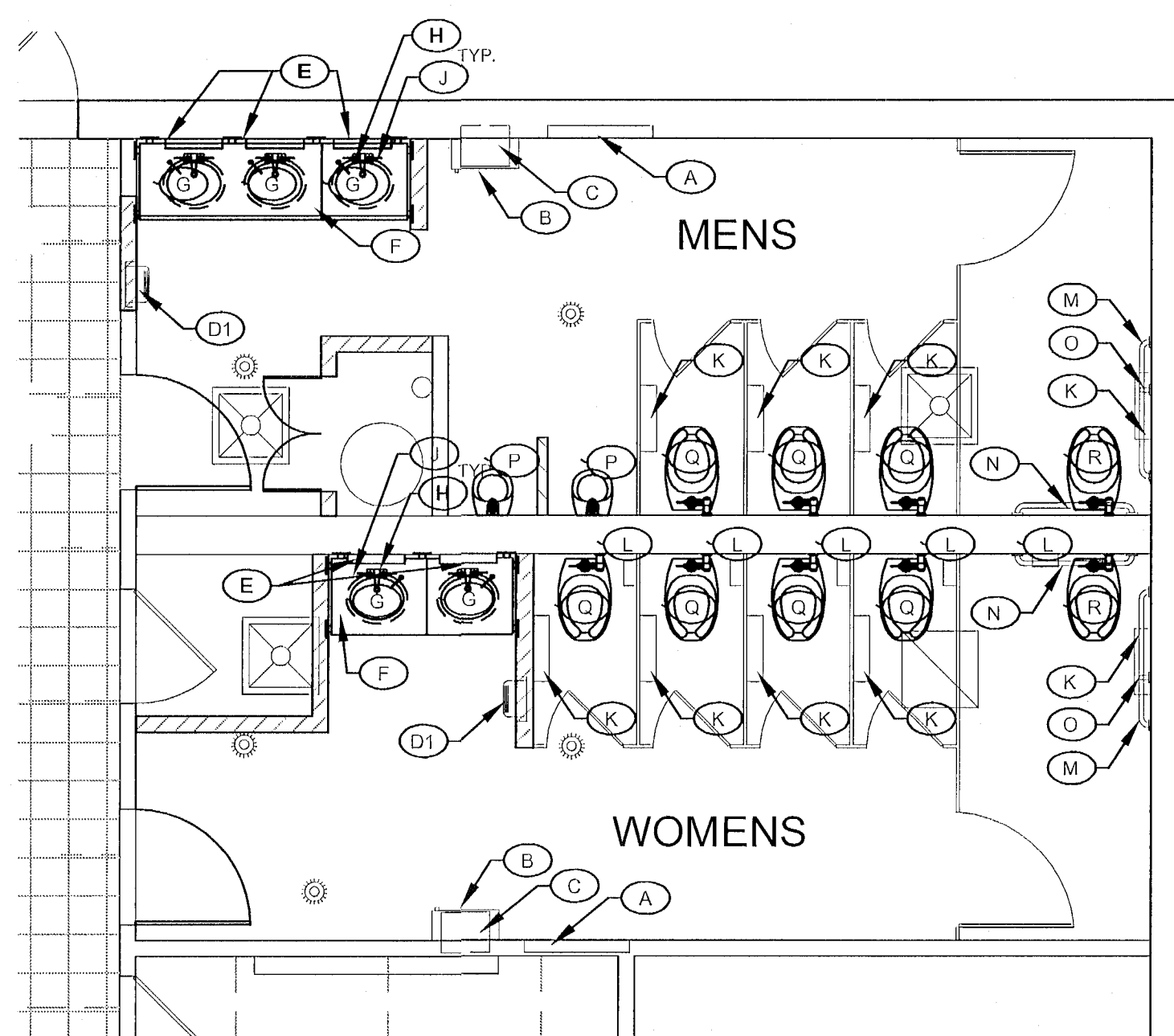
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PROJECT NO: 101301
DRAWN BY: HH
CHECKED BY: JCL
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DECOR PLAN

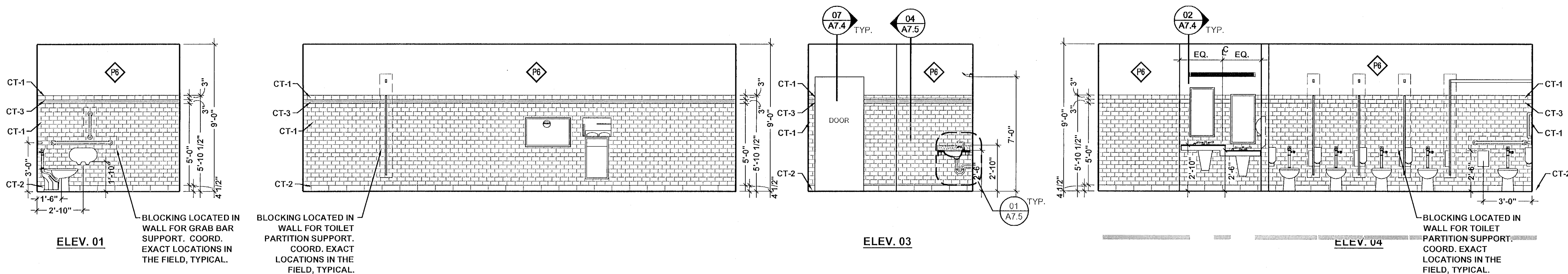
A9.1



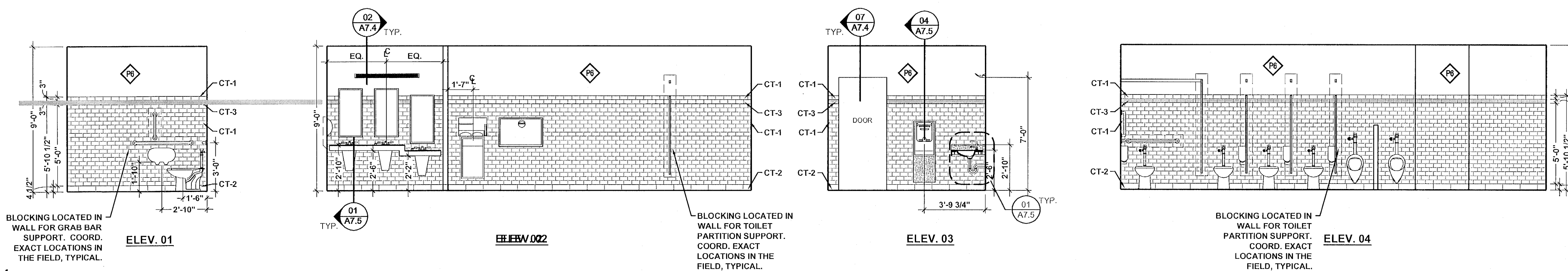
01 ENLARGED TOILET ROOM PLAN
SCALE: 1/4" = 1'-0"



02 ENLARGED TOILET ROOM ACCESSORIES PLAN
SCALE: 1/4" = 1'-0"



03 WOMENS TOILET ROOM ELEVATIONS
SCALE: 1/4" = 1'-0"



04 MENS TOILET ROOM ELEVATIONS
SCALE: 1/4" = 1'-0"

TOILET PARTITIONS

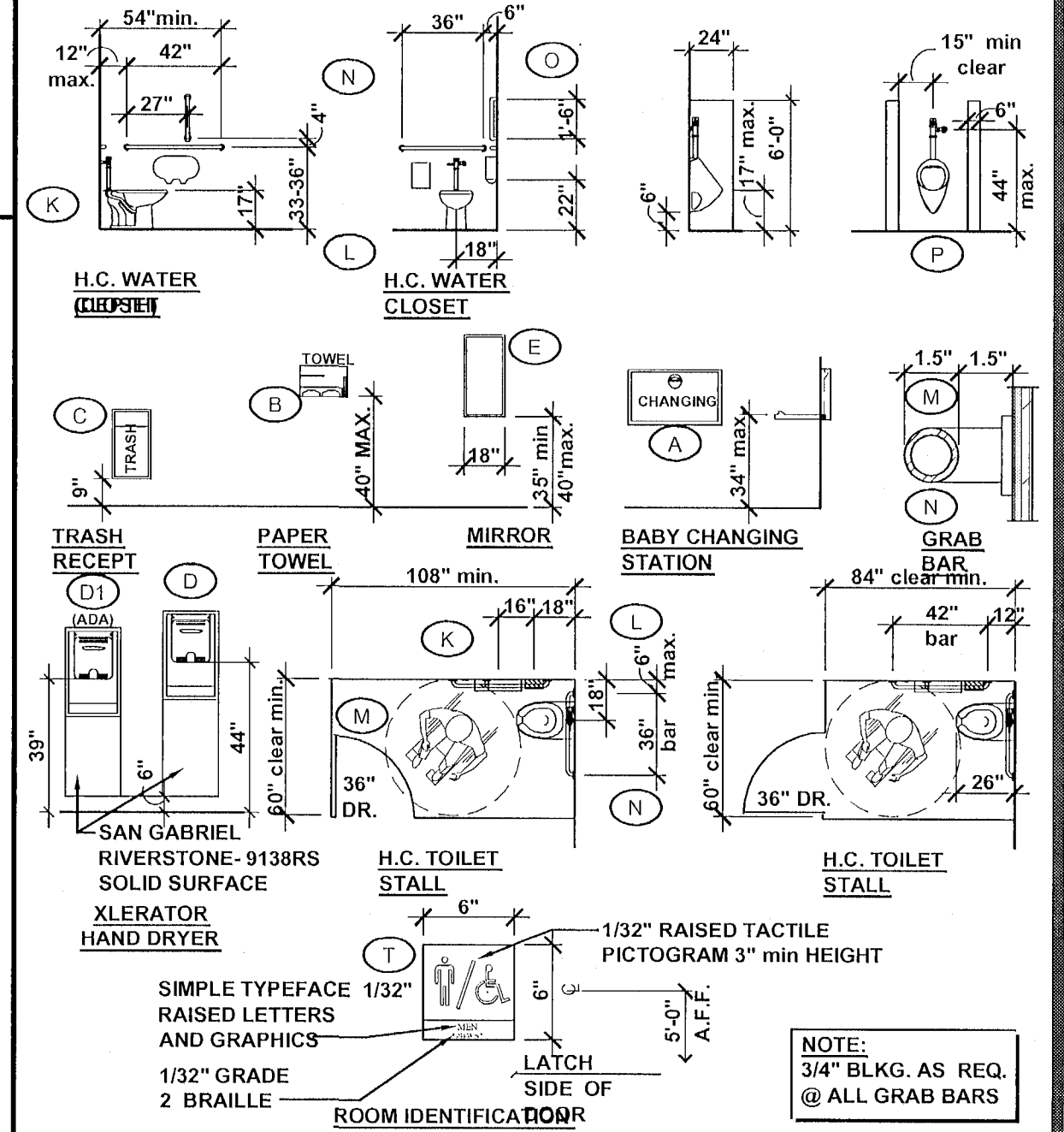
- PROVIDE AND INSTALL FLOOR MOUNTED TOILET PARTITIONS AS MANUFACTURED BY BOBRICK.
- BOBRICK DURALINE PHENOLIC COMPARTMENTS:
 - COLORS: BOBRICK DURALINE OCHRE ROULETTA 4738
 - DOORS: 1" THICK WITH SHARP EDGES REMOVED.
 - PANELS: 1" THICK.
 - PILASTERS: 1 1/4" THICK
 - TOP BRACKETS:
 - BRIGHT ANODIZED ALUMINUM CHANNEL 1-7/16" X 1-1/4" ANTI-GRIP DESIGN AND THRU-BOLTED THROUGH FRONTS.
 - FRONT SHALL BE SECURED TO THE FLOOR WITH 12 GAUGE TYPE 304 STAINLESS ANGLE AND TWO (2) 5/16" STUDS WITH LEVELING NUTS AND WASHERS.
 - ACCESSORIES: COMBINATION COAT HOOK AND BUMPER AT EACH STALL.
 - HARDWARE: COMPARTMENTS SHALL HAVE ALL HARDWARE AND FASTENERS NECESSARY FOR COMPLETE INSTALLATION.
 - HINGES SHALL BE SURFACE MOUNTED AND MADE OF CHROME PLATED ZAMAC.
 - TOP HINGES SHALL HAVE CONCEALED ABS ADJUSTABLE CAMS WITH CHROME PLATED ZAMAC REINFORCING PIN.
 - STOP, KEEPER AND SLIDE LATCH SHALL BE CHROME PLATED ZAMAC.
 - ALL BRACKETS SHALL BE CHROME PLATED ZAMAC.
 - ALL HARDWARE SHALL BE THRU-BOLTED WITH ONE-WAY FASTENERS.

TYPICAL RESTROOM ACCESSORIES

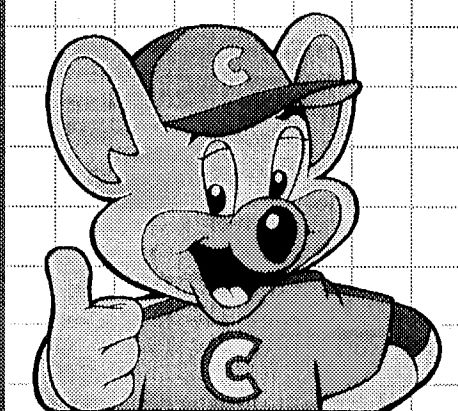
MARK	MANUFACTURER	DESCRIPTION	FURNISHED BY	INSTALLED BY	REQUIRED BLOCKING	REMARKS
A	KOALA BEAR KARE	KB110-SSRE HORIZ. CHANGING TABLE	G.C.	G.C.	X	RECESSED
B	JAMES RIVER	PAPER TOWEL DISPENSER	CEC	G.C.	X	
C	BRADLEY #334	WASTE RECEPTACLE	G.C.	G.C.		SEMI-RECESSED
D	SMART DRI	MODEL K-973 (BRUSHED STAINLESS)(120V)	G.C.	G.C.		SOLID SURFACE APRON D1 - ADA
E	BRADLEY #781-1836	(18"X36") SS FRAMED MIRROR	G.C.	G.C.		
F	WILSONART COUNTER	SAN GABRIEL RIVERSTONE-9138RS SOLID SURFACE	G.C.	G.C.	X	
G	WILSONART SINK	BV123 CREAM 1572-SL	G.C.	G.C.	X	INTEGRAL MOUN
H	MOEN	CAB218 FAUCET WITH CA14750 GRID STRAINER	G.C.	G.C.		
I	BOBRICK	B-8221 HAND SOAP DISPENSER LAV. MOUNTED	G.C.	G.C.		
J	JAMES RIVER	TOILET PAPER DISPENSER	CEC	G.C.		
K	BRADLEY #4781-15	NAPKIN DISPOSAL BOX	G.C.	G.C.		
L	BRADLEY #4781-15	42" HANDICAP GRAB BARS	G.C.	G.C.	X	
M	BRADLEY #4781-15	36" HANDICAP GRAB BARS	G.C.	G.C.	X	
N	BRADLEY #4781-15	18" VERTICAL GRAB BARS	G.C.	G.C.	X	
O	TOTO USA	UTY104 URINAL WHITE COLOR W/ SLOAN MANUAL FLUSH VALVES	G.C.	G.C.	X	URINAL
P	AMERICAN STANDARD	"MADERA AQUAMETER" 2234.015-WHITE COLOR	G.C.	G.C.		TOILET
R	AMERICAN STANDARD	"MADERA" 3043.102.020-WHITE COLOR	G.C.	G.C.		HANDICAP TOILE

TOILET ROOM ACCESSIBILITY REQUIREMENTS

- NOTE:
- TOILET ROOMS SHALL CONFORM TO ALL ACCESSIBILITY REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ANSI 117.1) WHICH INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
 - CONTRACTOR SHALL INSTALL ONE NAPKIN DISPOSAL BOX IN EACH STALL OF THE WOMEN'S RESTROOM
 - DIMENSIONS ARE FROM TO F.O.F. FINISH U.O.
 - KNEE CLEARANCE AT LAVATORY: APRON 29" MIN. HEIGHT, 8" MIN. DEPTH.
 - LAVATORY HOT WATER AND DRAINPIPPES TO BE INSULATED WHEREVER EXPOSED WITH FORM FITTING WRAPS.
 - PROVIDE ALL BLOCKING AS REQUIRED.
 - SILICON SEAL ALL FIXTURES TO WALL AND/OR FLOOR AS REQUIRED.
 - ALL ACCESSORIES SHALL BE THRU-BOLT AT TOILET PARTITION LOCATIONS. INSTALL 5'-0" TALL TOILET PARTITIONS AT 1'-0" A.F.F. SEE ENLARGED DETAIL FOR CENTERS.
 - INSTALL BOX WALL SMOKE LIGHT 7'-0" A.F.F. SEE SHEET A3.0 FOR LOCATION.
 - TOILET CLOSET SEAT HEIGHT: 17" TO 19" A.F.F.
 - GRAB BARS AT SIDE OF WATER CLOSET: 42" LONG MOUNTED 33" TO 36" A.F.F.
 - GRAB BAR DISPENSER: 36" MAX. FROM REAR WALL, 19" MIN. A.F.F.
 - GRAB BAR DIAMETER: 1 1/2" TO 1 3/4" O.D.
 - GRAB BAR BEHIND WATER CLOSET: 36" LONG, MOUNTED 33" TO 36" A.F.F.
 - INTERNATIONAL SYMBOL OF ACCESSIBILITY
 - TO BE INSTALLED ON EXTERIOR OF THE TOILET ROOM DOOR. (RE: ELEVATION DETAIL BELOW) IDENTIFICATION SIGNS ARE RAISED SAN SERIE OR SIMPLE SERIE AND ALSO HAVE GRADE 2 BRAILLE. PICTORIAL SYMBOLS AND INCLUDE VERBAL DESCRIPTION. ROOM IDENTIFICATION SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE ROOM DOOR AT A HEIGHT OF 60" A.F.F. PROVIDE CLEAR FLOOR SPACE AT SIGN.



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STORE # 939

A9.2

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 0220 - GEOTECHNICAL DATA

1. Subsurface Report

- a. The Owner has had a subsurface investigation performed by a geotechnical consultant, the results of which are contained on the structural drawings. The consultant report presents his conclusions on subsurface conditions, based on his interpretations of the data obtained in the investigation. The Contractor shall acknowledge that he has reviewed the consultants report and any addenda thereto, and that his Bid for excavation operations, including all necessary rock removal, is based on subsurface condition as described in that report. It is recognized that a subsurface investigation may not disclose all conditions, as they actually exist beneath the line of a subsurface investigation and the time of excavation operations. In recognition of these facts, this clause is entered in the Contract to provide a means of equitable additional compensation for the Contractor if adverse unanticipated conditions are encountered, and to provide a means of rebate to the Owner if the conditions are more favorable than anticipated.
- b. At any point in time during excavation operations that the Contractor encounters conditions that are different than those anticipated by the foundation consultants report, he shall immediately (within 24 hours) bring this fact to the Owners attention. Once a fact of unanticipated condition has been brought to the attention of the Owner, and the consultant has concurred, immediate negotiations will be undertaken between the Owner and the Contractor to arrive at a change in contract price for additional work or reduction in work because of the unanticipated conditions. The Contractor agrees that his stated unit price would apply for additional or reduced work under the Contract.
- c. The soil investigation report is not intended as representations or warranties of accuracy of continuity between soil borings, and furnished only as a matter of convenience to the Bidder.

SECTION 0145 - TESTING AND INSPECTION SERVICES

1. SUMMARY

- a. This Section includes the following:
1. Earthwork Testing and Inspection Service.
 2. Asphalt Paving Testing and Inspection Service.
 3. Concrete Paving Testing and Inspection Service.
 4. Concrete Testing and Inspection Service.
 5. Structural Steel, Steel Joist and Metal Deck Inspection Service.
 6. Rough Carpentry.
 7. Air Balance Testing and Inspection Service.

2. TESTING - GENERAL

- a. The Owner employs one or more special inspectors who provide inspections during construction on the types of work listed under Section 7701 of the IBC and article 1.6 below.
- b. The Contractor shall provide such equipment and facilities as the Testing Agency may require for conducting field tests and for collecting and forwarding samples. The Contractor shall not use any materials or equipment represented by samples until tests, if required, have been made and the materials found to be acceptable. Any product which becomes unfit for use after acceptance shall not be incorporated into the work.
- c. All materials or equipment, proposed to be used, may be tested at any time during their preparation or use. The Contractor shall provide the required samples without charge and shall coordinate testing with the Owner's Representative and/or Testing Agency to allow sufficient time for testing before placing orders or starting work. Products may be tested either prior to shipment or after being received at the jobsite.
- d. Tests shall be made by an accredited testing agency with a minimum of 5 years experience in the specific type of testing to be performed. Except as otherwise provided, sampling and testing of all materials and the laboratory methods and shall be in accordance with the latest standards with the latest standards and tentative methods of the American Society for Testing Materials (ASTM).
- e. Where additional or specific information concerning testing methods, samples sizes, etc., is required, such information is included under this section of the Specifications.

3. TESTING REQUIRED OF CONTRACTORS

The following testing shall be performed at the expense of the Contractor installing the material being tested:

- a. Material or Method Substitution: Any tests of basic material, fabrication equipment or method offered as a substitute for specified items or methods on which a test may be required in order to prove its compliance with the specifications.
- b. Product Performance Verification: The Supplier of products specified based on performance criteria shall, at the request of the Architect or Structural Engineer, inspect the installed product and certify conformance of the product to specified criteria under the installed conditions.
- c. Corrective measures resulting from any test that fails shall be paid for by the installing contractor and shall be subject to the following conditions:
1. Quantity and nature of additional testing, if required, will be determined by the responsible consultant.
 2. All additional tests shall be taken in the presence of the responsible consultant or his representative.
 3. Proof of noncompliance will make the installing contractor liable for any corrective action which the responsible consultant feels is prudent, including complete removal and replacement of defective material.
 4. Nothing contained herein is intended to imply that the installing contractor does not have the right to have tests performed on any material or any line or for his own information and job control so long as the Owner does not assume responsibility for costs or for giving them consideration when appraising quality of materials.

4. CONTRACTOR'S QUALITY CONTROL SYSTEM

- a. General: The General Contractor shall establish a quality control system and shall perform sufficient inspection and tests of all items of work, including that of his subcontractors, to ensure conformance to the Contract Documents for materials, workmanship, construction, finish, functional performance and identification. Contractor's quality control system is the means by which he assures himself that his construction complies with the requirements of the Contract Documents. Controls shall be adequate to cover all construction operations. Quality Assurance/Construction Inspections conducted by the Owner's independent testing agency does not relieve the Contractor of the requirement to provide a quality control program.

5. MANUFACTURER'S FIELD SERVICES

- a. When specified in respective Specification sections, Contractor shall require supplier or manufacturer to provide qualified personnel to observe field conditions, conditions of surfaces and installation, quality of workmanship, testing, and to make appropriate recommendations.
- b. Manufacturer's representative shall submit written report to the Architect and responsible Engineer listing observations and recommendations.

6. INDEPENDENT TESTING AGENCY SERVICES

- a. General: The Owner will employ and pay for the services of an independent Testing Agency to perform the following inspections, tests and other services. Services shall be performed in accordance with requirements of governing authorities and with specified standards.
- b. Testing Agency Qualifications
1. For each type of inspection and testing service to be performed, the Testing Agency shall submit certification, signed and sealed by the Agency's professional engineer, of compliance with all applicable requirements of the following:
 - a. ASTM E320, "Standard Recommended Practice for Inspection Agencies for Concrete, Steel and Bituminous Materials Used in Construction."
 - b. "Recommended Requirements for Independent Laboratory Qualifications" published by the American Council of Independent Laboratories.
 2. Furnish evidence, satisfactory to the Structural Engineer, that all equipment to be used has been calibrated in accordance with applicable ASTM standards within the last year and is in proper working order.
 3. Testing and inspection services shall be performed only by trained and experienced technicians currently qualified for the work they are to perform. Documentation of such training and experience shall be submitted to the Owner, Architect and Structural Engineer upon request. Weld inspection shall be done weld inspectors currently certified by the American Welding Society only.
 - c. Soil Material and Soil Compaction
 1. The Testing Agency will prepare one optimum moisture-maximum density curve for each type of soil encountered in subgrades under paved areas or areas to be determined in accordance with ASTM 1557 for all materials with a plasticity index of less than 20 and ASTM D698 for clay soil with a plasticity index of 20 or more.
 2. Each type of borrow material will receive, as applicable:
 - a. Mechanical Analysis
 - b. Moisture-density curve determination
 - c. Plasticity index determination
 3. Compacted fill, subgrades under compacted fill or paved areas and backfill at all utility trenches (includes those by utilities companies) shall be tested as follows:
 - a. The top 12 inches of subgrade resulting from excavation shall have the maximum density at optimum moisture specified under Section 02200 Earthwork. Make at least one field density test of the subgrade for every 5000 square feet of area, but in no case less than three tests.
 - b. In each compacted fill layer, make one field density test for every overlaying 5000 square feet of area, but in no case less than three tests. Perform field density tests in accordance with ASTM D1556, ASTM D2167, or ASTM D2922.
 - c. The relative density or a cohesionless, free-draining soil, expressed as a percentage, is defined as the state of compactness with respect to the most loose and most compact states at which it can be placed by laboratory procedures. The relative density will be based on the following formula, wherein the maximum density is the highest dry unit weight of the soil, minimum density is lowest dry unit weight of the soil, and ρ -value is the dry unit weight of the soil in place:
$$\text{Relative Density (\%)} = \frac{\text{Max. Den. } x (\text{in-place den.} - \text{min. den.})}{\text{In-place den. } x (\text{max. den.} - \text{min. den.})}$$

d. Concrete Work:

1. Concrete inspection and testing will be made in accordance with building code requirements, and Contract Documents, and will include the following:
 - a. Testing concrete for strength, slump, air content, temperature, and unit weight.
 - b. Making and testing concrete cylinders, including furnishing cylinder containers for specimens.
 - c. Transporting and storing of all specimens involved in testing and inspection. Test cylinders are to be transported to laboratory not later than 24 hours after casting, nor earlier than 16 hours after casting.
 - d. Inspection of mixing and placing of concrete at the site, including recording of: amount and location of concrete placement, truck number and amount of water added to each load of concrete tested, time of transit, time mixed on job, time placement was completed, method of placing concrete, and any other pertinent information.
2. Test Specimens:
 - a. The Testing Laboratory will take specimens of each class of concrete from different locations on the job as follows: At least one set of four cylinders for each 500 cubic yards or fraction thereof of all other concrete, but not less than one set for any one day's operations. Every concrete truckload shall be checked for proper slump.
 - b. For concrete placed by pumping, test specimens and concrete used for determination of slump, air content, and weight are to be taken at the point of placement of concrete into the forms.
 - c. For concrete placed in sidewalks, curb and gutter, test specimens and concrete used for determination of slump, air content, and weight are to be taken at the point of placement of concrete into the forms. Take at least one set of four cylinders for each 100 linear feet or fraction thereof.
 - d. Samples will be obtained in accordance with ASTM C172.
 - e. Making, curing and subsequent handling of test cylinders, except as modified herein, shall be in accordance with ASTM C31. Testing shall be in accordance with ASTM C39.
 - f. The cylinders shall be placed in laboratory storage under moist curing conditions at approximately 70 degrees F. within 24 hours after molding, and maintained therein until tested. Tests will be as follows:
 - 1) One cylinder shall be tested at 7 days for information.
 - 2) Two cylinders shall be tested at 28 days for acceptance. The acceptance test results shall be the average strength of these two cylinders.
 - 3) One cylinder shall be tested at 45 days for information.

3. Test Reports: Reports of cylinder tests shall be submitted as specified herein within five days of laboratory testing. Test reports shall, as a minimum, include:
 - a. Project data including project name and address, concrete supplier, supplier's delivery ticket number and mix identification number, Testing Agency's test or cylinder identification number, and location of pour.
 - b. Results of field testing at time of sampling including date and time of sampling, amount of water added at site prior to sampling, ambient air temperature and concrete temperature, concrete slump and air content, concrete wet unit weight, time batched, and time placed.
 - c. Results of laboratory testing including date test specimens were transported to laboratory, date and age of concrete at time of testing, compressive strength of each cylinder tested, average compressive strength of tested cylinders, and specified design strength of concrete represented by the test.
4. Additional Testing: Contractor shall bear the cost of testing and inspection resulting as a consequence of the following:
 - a. Work not in compliance with the Contract Documents.
 - b. Testing requested by the Contractor or Subcontractor such as additional cylinders for early breaks, etc.
 - c. Testing in order to verify the adequacy of work done without prior notice, without proper supervision, or contrary to standard construction practice.
5. Reinforcing Steel Inspection: Concrete reinforcing shall be inspected prior to closing of concrete formwork or placing of concrete. Inspect all reinforcing for conformance with contract requirements. Submit written reports of all inspections as specified herein on a weekly basis. Such reports shall include a description of each area inspected, deficiencies noted, and corrective action undertaken to resolve such deficiencies. Deficiencies observed shall immediately be brought to the attention of the Contractor's Field Superintendent. In the event deficiencies are not corrected, or if an interpretation of the contract documents is required, the Structural Engineer shall be immediately notified.

f. Structural Steel and Metal Fabrications:

1. The Testing Agency shall be responsible to inspect all field connections as specified herein. The Testing Agency may also conduct inspections at the fabricator's facility during steel fabrication.
2. For steel fabrication done in non-domestic (non-U.S.) fabrication facilities, inspections at the fabrication facility deemed necessary by the Testing Agency to verify compliance with AISC, AWS, and project specifications, shall be done at the expense of the General Contractor.
3. The Testing Agency's inspector will perform his duties in such a way that neither fabrication nor erection is unnecessarily delayed or impeded. In no case will the Inspector recommend or prescribe the method of repair of a defect.
4. Shop and/or field inspection by the Testing Agency of fabricated and/or erected steel will be such as to assure that the work conforms to specified requirements and will include:
 - a. Inspection of welding as required herein.
 - b. Ascertainment of proper fit and alignment.
 - c. Ascertainment of proper installation and tensioning of bolts.
 - d. Ascertainment that Contractor's erection procedures adequately correct for distortion and shrinkage in field welded assemblies and connections.

5. Welding and Materials:

- a. Inspection of welding by the Testing Agency will be such as to assure that the work conforms to specified requirements, and will include:
 - 1) Ascertainment that electrodes used for manual shielded metal-arc welding and the electrodes and flux used for submerged arc welding conform to the requirements of Section 05120.
 - 2) Ascertainment that the approved welding procedure and the approved welding sequence is followed without deviation, unless specific approval for change is obtained from the Structural Engineer.
 - 3) Ascertainment that the welding is performed only by welding operators and welders who are properly certified. The Testing Agency shall witness such qualification testing of welding operators and welders, as may be required.
 - 4) Ascertainment that the fit-up, joint preparation, size, contour, extent of reinforcement, and length and location of welds conform to specified requirements and the contract drawings, and that no specified welds are omitted or unspecified welds added without approval of the Structural Engineer.
- b. The Testing Agency shall test field welds as follows:
 - 1) All welds, including weld and shoring connections: 100% visual.
 - 2) All full or partial penetration groove welded connections: 100% ultrasonic.
 - 3) All other welds: 10% magnetic particle.
- c. Additional testing will be required of:
 - 1) If more than 10 percent of the tested welds are rejected, then an additional 10 percent of all such welds shall be tested using the same method. The 10 percent additional testing process shall be repeated until the rejection rate drops below one in 10.
 - 2) All cost of additional inspection required by this paragraph shall be borne by the Contractor.
- d. In addition, if defective welds are discovered, the remaining uninspected welds shall receive such ultrasonic or magnetic particle inspection as may be required by the Structural Engineer.
- e. The welding inspector will have the authority to reject weldments. Such rejection may be based on visual inspection where in his opinion the weldment would not pass a more detailed investigation.
- f. Reports by the Testing Agency's inspector will contain, as a minimum, an adequate description of each weld tested, the identifying mark of the welder responsible for the weld, a critique of any defects noted by visual inspection or testing, and a statement regarding the acceptability of the weld tested, as judged by current A.W.S. standards. Reports shall be distributed as early as possible but not later than one workweek after the tests have been performed. The Structural Engineer shall be notified by phone if, in the judgment of the inspector, test results require immediate comment.
- g. Radiographic testing may be substituted for ultrasonic.

6. Bolted Connections: Visually inspect all bolted connections to ascertain that all bolts, nuts, and required washers have been installed and are of proper type and that all laying surfaces have been brought into snug contact.
7. Tensioned High Strength Bolts:
 - a. Standard Bolts:
 - 1) Inspect the bolt tightness of 10% of the bolts (minimum of 2) selected at random in each high strength bolted connection of structural steel framing on the project. If rejectable bolts are found in any connection, all the remaining bolts in that connection shall be inspected for tightness.
 - 2) Inspection procedure shall be in accordance with "Specification for Structural Joints Using ASTM A325 or A490 Bolts" approved by Research Council on Riveted and Bolted Structural Joints of the Engineering Foundation (Research Council on Structural Connections).
 - b. Tension Control (Self-indicating) Bolts:
 - 1) Inspect tightness of 10% (minimum of 2) of the bolts, selected at random in each high strength bolted connection on the structural steel framing on the project in accordance with the procedure specified for standard bolts, first paragraph.
 - 2) Perform a visual inspection of all remaining high strength bolted connections to assure that all torque-out splines have been sheared.
 - 3) When splines are not sheared, the Testing Agency shall determine that proper bolt tension has been achieved by the application of a properly calibrated testing torque or the Contractor may, at his option, remove and replace all bolts with unsheared splines. All cost of additional inspection required by this paragraph shall be born by the Contractor.

g. Metal Deck:

1. The Testing Agency will visually inspect all metal deck to observe that material is in acceptable condition and has been properly installed.
 - a. Testing concrete for strength, slump, air content, temperature, and unit weight.
 - b. Making and testing concrete cylinders, including furnishing cylinder containers for specimens.
 - c. Transporting and storing of all specimens involved in testing and inspection. Test cylinders are to be transported to laboratory not later than 24 hours after casting, nor earlier than 16 hours after casting.
 - d. Inspection of mixing and placing of concrete at the site, including recording of: amount and location of concrete placement, truck number and amount of water added to each load of concrete tested, time of transit, time mixed on job, time placement was completed, method of placing concrete, and any other pertinent information.
 2. The Testing Agency shall visually inspect all deck welds prior to being covered by other work.
- h. Drilled-In Inserts:
- Self-Expanding Inserts: The Testing Agency shall inspect self-expanding, drilled-in inserts shown on the structural drawings as follows:
1. Prior to installation, the Testing Agency shall determine that the installing contractor has the proper materials and equipment for drilling holes in the receiving surface of required diameter and length.
 2. All inserts shall be visually inspected after installation to ensure that they have been installed perpendicular to the receiving surface and to proper depth.
- i. Wood Framing:
1. Observe placement of framing hardware. Verify hardware is installed per manufacturer's requirements/directions.
- j. Grading, excavation and filling. During earthwork excavations, grading and filling operations inspections.

DIVISION 2 - SITE CONSTRUCTION

SECTION 0210 - SITE CLEARING

1. Remove improvements or obstructions interfering with installation of new construction. Remove such items elsewhere on site or premises as specifically indicated. Remove includes digging out stumps and roots.
2. Topsoil: Topsoil is defined as friable clay loam surface soil found in a depth of not less than 4". Satisfactory topsoil is reasonably free of subsoil, clay lumps, stones, and other objects over 1" in diameter, and without weeds, roots, and other objectionable material.
3. Strip topsoil to whatever depths encountered in a manner to prevent intermingling with underlying subsoil or other objectionable material. Stockpile topsoil for reuse in landscape and green areas; excess shall be removed from site.
4. Remove heavy growths of grass from areas before stripping.
5. Stockpile topsoil in storage piles in areas shown, or where directed. Construct storage piles to freely drain surface water. Cover storage piles if required to prevent wind-blown dust. Stockpile sufficient quantity for 12" minimum depth in landscaped areas.
6. Clearing and Grubbing: Clear site of trees, shrubs and other vegetation, except for those indicated to be left standing.
7. Completely remove stumps, roots, and other debris protruding through ground surface.
8. Removal of Improvements: Remove above-grade and below-grade improvements necessary to permit construction and other work as indicated.
9. Abandonment or removal of certain underground pipe or conduits may be shown on mechanical or electrical drawings, and is included under work of these sections. Removal of abandoned underground piping or conduit interfering with construction is included under this section.
10. Provide protection to improvements to remain.

SECTION 0220 - EXCAVATION, BACKFILLING, COMPACTION, AND GRADING

The following are general guidelines for excavation, backfilling, compaction and grading. The contractor shall follow the specific recommendations made in the soils report and/or construction documents. When not specifically addressed in the construction documents, contractor shall comply with the provisions herein.

1. Excavate for footings; foundations structures, utilities, etc. to indicated depth. All excavation shall be assumed as earth.
 - a. Trim bottoms to leave solid, undisturbed base for concrete placement. See Soils Report for bearing capacity.
 - b. All foundation excavation shall be kept dry, and protected from freezing.
 - c. Correct unauthorized excavation in a manner acceptable to Owner.
2. Excess earth not required for backfill shall be removed from site. General Contractor responsible for topsoil placement and raking to grade.
 - a. Compact soil to not less than the following percentages of maximum density for soils, which exhibit a well-defined moisture density relationship (cohesive soils) determined in accordance with ASTM D1557; and not less than the following percentages of relative density, determined in accordance with ASTM D2494, for soils which will not exhibit a well-defined moisture-density relationship (cohesionless soils).
 - b. Under Buildings and Paved Areas: Compact top 8 inches of existing surface and each layer of backfill of fill material to 95 percent maximum density (Standard Proctor) for cohesive soil or 98 percent relative density (Standard Proctor) for cohesionless soils.
 - c. Other Areas: Compact 8 inches of existing ground surface and each layer of backfill of fill material to 90 percent maximum density (Standard Proctor) for cohesive soils or 85 percent relative density (Standard Proctor) for cohesionless soils.
 - d. Where soil materials must be moisture conditioned before compaction, uniformly apply water to surface. Prevent free water from appearing on surface of soil materials during or subsequent to compaction operation.
 - e. Remove and replace, or scarify and air dry soil materials that is too wet to permit compaction to specified density.
4. Backfill and fill materials
 - a. Sand or sand on gravel at engineered (clean) earth fill shall be used under floor slabs on-grade, to underside of crushed stone underlayment.
 - b. Earth materials taken from the excavation operations and stockpiled on site as acceptable fill material, capable of meeting the specified compaction requirements, shall be (be used as fill material in areas outside the building.
 - 1). Only 1-inch washed gravel, pea gravel or sand shall be used in utility trenches in paved areas, to top of subgrade.
 - c. Existing paving, organic material or existing soils shall not be used for filling under building slabs or for filling under pavement.
 - d. Granular fill under slabs on grade shall be No. 57, 6, or 67 crushed stone per ASTM D448.
 - e. Remove rock or gravel larger than 2 inches in any dimension, debris, waste, obstructions, and deleterious matter from ground surface prior to placement of fills.

5. Grade site to establish required elevations. Maintain proper drainage ways to direct water away from building in final grading.
 - a. Storm drainage shall be provided as indicated on site plan(s) and installed in accordance with state and local codes and ordinances.
6. Grade areas to smooth finished surfaces free from irregular surface changes. Compact with uniform levels or slopes between points and existing perimeter grades

SECTION 02281 - TERMITE CONTROL

1. Provide soil treatment within 5'-0" beyond new building limits by licensed pest control company, to comply with local jurisdiction.
- a. Provide certificate of application to Owner.
2. Use an emulsifiable concentrate termiticide for dilution with water, specially formulated to prevent infestation by termites. Fuel oil will not be permitted as a dilutant. Provide a solution consisting of one of the following chemical elements and concentrations.
 - a. Chlorpyrifos (Dursban TC): 10 percent water emulsion.
 - b. Permethrin ("Dresinate", "Torpedo"): 0.5 percent in water emulsion.
3. Other solutions may be used as recommended by Applicator if also acceptable to the Owner and approved for intended application by jurisdictional authorities. Use only soil treatment solutions that are not injurious to planting.
4. Apply toxicant 12 hours prior to installation of vapor barrier under slab on grade or finish grade outside foundation walls.
5. Apply toxicant using metered applicator, per manufacturer's instructions, but not less than the amounts as follows:
 - a. Under floor slab on grade: One to one and a half gallons per 10 sq. ft.
 - b. Both sides of foundation walls: One gallon per 2.5 cubic feet to top of footing.
 - c. Soil within 5 feet of building perimeter: One gallon per 2.5 cu. ft.
6. Apply extra treatment to structure penetrations, pipe, ducts, and other soil penetrations.
7. Coordinate soil treatment at foundation perimeter with finish grading to prevent disturbance of treated soil. Re-treat disturbed treated soil.

SECTION 02600 - CONCRETE PAVING

1. Provide materials and methods conforming to State Highway Department Standards.
2. Furnish and install aggregate base, Portland cement concrete paving, including curbs, gutters and flatwork at Grade surfaces as indicated on the Drawings.
3. Materials:
 - a. Refer to Section 03300 for additional concrete material requirements.
 - b. Aggregate base: Class 2, 3/4" maximum aggregate size, in conformance with CSS, Section 26.
 - c. Forms: Use steel, wood or other suitable material of size and strength to resist movement during concrete placement and to retain horizontal and vertical alignment until removal.
 1. Use straight forms, free of distortion and defects.
 2. Use flexible spring steel forms, or laminated boards to form radius bends as required.
 3. Coat forms with a non-staining form release agent that will not discolor or delace surface of concrete.
 - d. Portland Cement: Type II, ASTM C150 unless noted otherwise in the Geotechnical Report.
 - e. Aggregate: ASTM C33, 3/4" maximum size.
 - f. Expansion Joint Filler: Pre-molded joint filler of non extruded and resilient, non-bituminous type conforming to ASHTO-M135.
 - g. Liquid Membrane Forming Curing Compound: Comply with ASTM C309, Type I, Class A, wax free.
 - h. Bonding Compound: Polyvinyl acetate or acrylic base, re-wettable type.
 - i. Epoxy Adhesive: ASTM C881, two-component material suitable for use on dry or damp surfaces. Provide material type, grade, and class to suit Project conditions.
 - j. Joint Sealer: Conforming to the approved color admixture manufacturer specification. "Lithochrome Colorcuk" manufactured by L.M. Schofield Company or equal.
 - k. Seal coat: Sealright: Vocomp-25 by W.R. Meadows, Inc.
 - l. Design mix to produce normal-weight concrete consisting of Portland cement, aggregate, and admixtures and water.
5. Comply with the Local Regulatory Agency for City of Landry requirements for all work within the Public Right of Way. All flat work within the Public Right Away and on site shall conform to ADA Standards and specific details of Local Regulatory Agency.
6. Curbs and Gutters
 - a. Automatic machine may be used for curb and gutter placement at Contractor's option.
 1. If machine placement is to be used, submit revised mix design and laboratory test results which meet or exceed minimums specified.
 2. Machine placement must produce curbs and gutters to required cross-section, lines, grades, finish, and jointing as specified for formed concrete.
 3. If results are not acceptable, remove and replace with formed concrete as specified.
 - b. All vertical curb and curb and gutter shall conform to the lines and grade shown on the Drawings.
 - c. Minimum of 4 inches of aggregate base shall be placed under all concrete curb.
7. Joints:
 - a. Expansion, weakened-plane (contraction), and construction joints for curb and gutter shall be constructed true-to-line with faces perpendicular to surface of concrete.
 1. Construct transverse joints at right angles to the centerline, unless otherwise indicated.
 2. When joining existing structures, place transverse joints to align with previously placed joints, unless otherwise indicated.
 - b. Expansion, weakened-plane (contraction), and construction joints for flatwork shall be constructed true-to-line and aligned as specified in this Section.
 - c. Weakened Plane/Contraction Joints:
 1. Provide weakened-plane/contraction joints at 10'-0" for curb and gutter.
 2. Provide weakened-plane/contraction joints at 4'-0" for concrete flatwork, unless otherwise shown.
 3. Construct weakened-plane-joints for a depth equal to at least 1/4 concrete thickness, as follows:
 - a. Tooled Joints: Form weakened-plane joints in fresh concrete by growing top portion with a recommended tool and finishing edges with a 2 - inch halo tool
 - d. Construction Joints: Place construction joints at end of placements and at locations where placement operations are stopped for a period of more than 1/2 hours, except where such placements terminate at expansion joints.
 1. Construct joints as indicated on the Drawings, or if not indicated, use standard metal keyway section forms.
 - e. Expansion Joints: Provide pre-molded joint filler for expansion joints abutting concrete curbs, catch basins, manholes, inlets, structures, walks and other flood objects, unless otherwise indicated.
 1. Provide expansion joints at 20'-0" for curb and gutter.
 2. Provide expansion joints at 20'-0" on center for flatwork, unless otherwise indicated. Final location shall be approved by the Architect.
 3. Extend joint fillers full-width and depth of joint, and not less than 1/2 inch or more than 1 inch below finished surface where joint sealer is indicated. If no joint sealer, place top of joint filler flush with finished concrete surface.
 4. Furnish joint fillers in one-piece lengths for full width being placed, wherever possible. Where more than one length is required, lace or clip joint filler sections together.
 5. Protect top edge of joint filler during concrete placement with a metal cap or other temporary material. Remove protection after concrete has been placed on both sides of joint.
 - f. Joint Sealer: Provide joint sealer for expansion joints. Place sealant full length of joint and to 1/4" below finish surface of concrete.
8. Finishing exterior slabs: Finish slabs to true planes and provide light broom finish as acceptable to Owner. All exterior exposed concrete shall receive an anti-slip treatment of 50% (by volume) banded linseed oil and 50% (by volume) mineral spirits, per AASHTO M233. First application: 40 sq. yds. per gallon and allow to completely dry. Second application: 60 sq. yds. per gallon and allow to completely dry.

- a. Vertical surfaces shall be rubbed with medium coarse carborundum stone and water to provide a smooth texture of uniform color, form mark free.
 - b. All concrete surfaces shall be stripped and rubbed same day.
9. Tolerance: Finished slabs shall be level with tolerance of 1/8" in ten feet, when tested with ten foot straight edge placed on the surface at not less than two different angles. Uniformly slope surface to area drain.

SECTION 02810 - ASPHALTIC CONCRETE PAVING

1. Provide materials and methods conforming to State Highway Department Standards.
2. Use only materials that are furnished by a bulk asphaltic concrete producer regularly engaged in production of hot-mix, hot-laid asphaltic concrete, complying with ASTM D3515.
3. The paving contractor shall provide a written guarantee for a period of eighteen (18) months from date of substantial completion, that all labor and material furnished and all work performed are in accordance to the contract documents, and any imperfect workmanship and/or materials will be replaced and/or repaired at no additional cost to the Owner.
4. Any work noted on the drawings or specified herein to encroach on right-of-way shall conform to the regulations of the agency having jurisdiction.
5. The subgrade in areas to be paved shall be true to line and grade, free from all loose rock, foreign materials, and shall have a dry and properly prepared surface, compacted with a mechanical tamper or proof roll with heavy pneumatic-tired equipment immediately prior to placing the dense graded aggregate base course. Any soft or unstable zones detected thereby should be undercut to firm soil and backfilled with engineered earth fill, compacted as specified. The subgrade for all pavements shall be uniformly stable before any dense graded aggregate base is installed.
6. Pavement make-up, unless otherwise noted on site plan or recommended in soil report.
 - a. Base course aggregate: 8" DGA, compacted thickness.
 - b. Binder course: 2" compacted thickness.
 - c. Surface course: 1" compacted thickness. Provide a dense graded mix to produce a tight, non-porous finished surface.
7. The base course shall consist of dense graded aggregate, plant mix; placed and compacted in accordance with the local Highway Department Standard Specifications.
 - a. Compact aggregate base course materials to not less than 95 percent of maximum density, ASTM D1557, Method D.
8. Asphalt Materials:
 - a. Asphalt Cement: ASTM D 3381 for viscosity-graded material, ASTM D 946 for penetration-graded material.
 - b. Asphalt Cement: ASTM D 3381 for viscosity-graded material.
 - c. Undersealing Asphalt: ASTM D 3141, pumping consistency.
 - d. Prime Coat: Asphalt emulsion prime conforming to state DOT requirements.
 - e. Prime Coat: ASTM D 977, emulsified asphalt or ASTM D 2397, cationic emulsified asphalt, slow setting, factory diluted in water, of suitable grade and consistency for application.

- f. Tack Coat: ASTM D 977, emulsified asphalt or ASTM D 2397, cationic emulsified asphalt, slow setting, factory diluted in water, of suitable grade and consistency for application.
- g. Fog Seal: ASTM D 977, emulsified asphalt or ASTM D 2397, cationic emulsified asphalt, slow setting, factory diluted in water, of suitable grade and consistency for application.
- h. Water: Potable.

9. Aggregate Materials:

- a. General: Use materials and gradations that have performed satisfactorily in previous installations for this type of application.
- b. Coarse Aggregate: Sound; angular crushed stone; crushed gravel; or properly cured, crushed blast-furnace slag; complying with ASTM D 692.
- c. Fine Aggregate: Sharp-edged natural sand, or sand prepared from stone, gravel, properly cured blast-furnace slag, or combinations thereof, complying with ASTM D 1073.
 1. For hot-mix asphalt, limit natural sand to a maximum of 10 percent by weight of the total aggregate mass.
- d. Mineral Filler: Rock or slag dust, hydraulic cement, or other inert material complying with ASTM D 242.

10. Apply prime coat over dry aggregate base course at a rate of 0.20 to 0.50 gal. per sq. yd. prior to placement of asphaltic concrete paving.
11. Place asphaltic concrete paving immediately after prime coat has cured and dried.

- a. Place asphaltic concrete on prepared aggregate base course and compact to establish required density, thickness and elevations.
- b. Spread and strike-off asphaltic concrete mixture using self-propelled paving machine except that inaccessible and small areas may be placed by hand. Spread a mixture at a minimum temperature of 225 degrees F.
- c. Place paving in strips not less than 10 feet wide, unless otherwise indicated.
- d. Ensure that joints made during asphaltic concrete paving operations are straight, vertical, tightly bonded, free of broken or loose material, and have same texture, density and smoothness as adjacent paving.
- e. Compact each asphaltic concrete paving course with self-propelled rolling equipment. Start compaction as soon as paving will bear equipment without checking or undue displacement.
- f. Carry out compaction in three operations (breakdown or initial rolling, second rolling and finish rolling) in pass sequence to produce smooth surfaces of uniform texture, free from depressions ("bird baths") and roller marks.
- g. Compact with hand tampers in areas not accessible to rolling equipment.

11. Compact asphaltic concrete paving to 100 percent of the laboratory compacted density determined in accordance with ASTM D1188.

12. Do not allow vehicular traffic on newly paved areas until surface has cooled to atmospheric temperature.

13. Patching and Repairs:

- a. Patching: Saw out perimeter of patch and excavate existing pavement section to sound base. Recompact new subgrade. Excavate rectangular or trapezoidal patches, extending 12 inches (300 mm) into adjacent sound pavement, unless otherwise indicated. Cut excavation faces vertically.
 1. Tack coat vertical faces of excavation and allow to cure before paving.
 2. Fill excavation with dense-graded, hot-mix asphalt base mix and, while still hot, compact flush with adjacent and maximum depth of excavation.
 3. Partially fill excavation with dense-graded, hot-mix asphalt base mix and compact while still hot. Cover asphalt base course with compacted, hot-mix surface layer finished flush with adjacent surfaces.
- b. Portland Cement Concrete Pavement: Break cracked slabs and roll as required to reset concrete pieces firmly.
 1. Pump hot undersetting asphalt under rocking slabs until slab is stabilized or, if necessary, crack slab into pieces and roll to reset pieces firmly.
 2. Remove disintegrated or badly broken pavement. Prepare and patch with hot-mix asphalt.
- c. Leveling Course: Install and compact leveling course consisting of dense-graded, hot-mix asphalt surface course to level slabs and fill depressions deeper than 1 inch (25 mm) in existing pavements.
 1. Install leveling wedges in compacted fills not exceeding 3 inches (75 mm) thick.
- d. Crack and Joint Filling: Remove existing filler material from cracks or joints to a depth of 1/4 inch (6 mm). Refill with asphalt joint-filling material to restore watertight condition. Remove excess filler that has accumulated near cracks or joints.
- e. Tack Coat: Apply uniformly to existing surfaces of previously constructed asphalt or portland cement concrete paving and to surfaces abutting or projecting into new, hot-mix asphalt pavement. Apply at a uniform rate of 0.05 to 0.15 gal./sq. yd. (0.2 to 0.7 L/sq. m) of surface.
 1. Allow tack coat to cure undisturbed before paving.
 2. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

SECTION 0275 - PAVEMENT SEAL COAT

1. If noted on the construction documents, existing pavements, to remain shall receive a sand/slurry seal per local state highway specifications.
 - a. Slurry seal shall consist of emulsified asphalt (SS1H or CSS-1H), fine aggregate, Portland cement and water, applied at 16 pounds per square yard (based on dry aggregate weight) but no less than 1714" thickness.

SECTION 02580 - PAVEMENT MARKING

1. Marking paint shall conform to AASHTO M248 (chlorinated rubber-alkyd), Type III, Apply as 4" wide stripes (or symbols as indicated) in one coat of 125 sq. ft. per gallon. Color shall be white. Accessible details shall comply with the latest provisions of the Americans with Disabilities Act.

2. Dust, clay, silt, and excess sand shall be removed by sweeping from pavement to be marked prior to application of paint.

3. Apply paint with mechanical equipment to produce pavement markings of dimensions indicated with uniform, straight edges. Apply at manufacturer's recommended rates to provide a minimum wet film thickness of 15 mils (0.4 mm).
 - a. Broadcast glass spheres uniformly into wet pavement markings at a rate of 6 lb./gal. (0.72 kg/L).

SECTION 02890 - TRAFFIC SIGNS

1. Traffic sign company with proof of biddingsupplying signs for DOT Highway Standards and governing local jurisdiction.

2. Materials:

- a. Base metal substrate alloy: 6061-T6 or 5052-A138.
 1. 18" or less - 0.053.
 2. Over 18" through 30" - 0.080 inches thick.
 3. Over 30" - 0.100.
- b. Size: Minimum size 24"x24" for stop/street type signs.
 1. Handicapped signs to meet American Disabilities act for size, shape, logos and lettering.</

DIVISION 4 - MASONRY

SECTION 04200 - CONCRETE UNIT MASONRY

1. Concrete Masonry Units:
- a. Concrete masonry units shall be from one manufacturer, of uniform texture and color for each type required.
 - b. Concrete masonry units: Nominal face dimensions of 8 inch wide x 8 inch deep x 16 inches long, unless otherwise indicated; complete with corners, bases, bond beams, inlets and fillers to match concrete masonry units; 1-1/4" minimum face shall be cured in a moisture-controlled atmosphere or in an autoclave at normal pressure and temperature to comply with ASTM C561, Grade N, Type I.
 - c. When concrete unit masonry units are removed from the manufacturers storage area, each cube or block shall be covered on top and all sides with a waterproof protective material. Protective covering shall be applied prior to the blocks being exposed to the weather.
2. Mortar: ASTM C476, Type S, 1800 psi at 28 days.
- a. Portland Cement: ASTM C150, Type I.
 - b. Aggregates: ASTM C144, standard masonry type; clean, dry and protected against dampness, freezing and foreign matter.
 - c. Hydrated Lime ASTM C207, Type S.
 - d. Water: Clean and free from injurious amounts of oil, alkali, organic matter or other deleterious material.
 - e. Use no admixtures unless written approval is obtained from Owner.
3. Grout: Masonry mortar; consistency which will completely fill all spaces intended to receive grout.
4. Reinforcing Bars: 60 ksi yield grade; deformed billet steel bars, ASTM A615.
5. Horizontal reinforcement: Truss type ASTM A92 hot dip galvanized steel wire after fabrication ASTM A153 Class B2 with not less than #9 side rods with #9 cross ribs.
- a. Dur-O-Wal, AA Wire Products, Heckman, or equal.
6. Maintain materials and surrounding air temperature to minimum 50 degree F, prior to, during and 48 hours after completion of masonry work or until complete hydration of the mortar is achieved whichever is greater.
7. During freezing or near freezing weather provide adequate equipment or cover to maintain a minimum temperature of 50-degree F, and to protect masonry work completed or in progress.
8. Establish lines, levels, and coursing. Protect from disturbances.
9. Thoroughly mix mortar ingredients, in quantities needed for immediate use.
- a. If necessary, re-temper mortars to replace water lost by evaporation, but do not re-temper or use mortar after two (2) hours from the initial mixing time.
10. Place masonry work, level and plumb in accordance with required lines and levels. Do not wet concrete masonry units. Align all vertical cells to maintain a clear, unobstructed system for grouting.
11. Full bond external and internal corners and intersections.
- a. Buttering corners of joints and deep or excessive furrowing of mortar joints will not be permitted.
12. Do not shift or tap masonry after mortar has taken initial set. Where adjustments must be made, remove mortar and replace.
13. Lay out masonry so not less than one-third (1/3) of the face of a unit is exposed on the face of the wall at openings, corner or offsets.
14. Perform jobsite cutting of masonry with proper power tools to provide straight and true, unchipped edges.
15. Ensure masonry courses are of uniform height. Make vertical and horizontal joints equal and of uniform thickness. Lay in full bed of mortar, properly jointed with other work.
16. Remove excess mortar and projections. Take care to prevent breaking masonry corners.
17. Lay all masonry units in running bond course 1 block unit and 1 mortar joint to equal 8 inches. Form concave mortar joints, where exposed, strike flush where concealed.
18. Provide temporary bracing during masonry erection. Maintain in place until building structure provides permanent bracing.
19. Place masonry reinforcing and anchorages for concrete unit masonry as follows:
- a. Provide single wythe walls with horizontal masonry reinforcing in every second mortar joint.
 - b. Place horizontal masonry reinforcing in first and second joint above and below openings. Place continuous in first and second joint below top of walls.
 - c. Fully reinforce corners and intersections, using prefabricated corner and "V" reinforcement sections.
 - d. Lap masonry reinforcing splices minimum 6 inches.
 - e. Place vertical reinforcing at indicated centers. Grout cores solid in 4'-0" maximum lifts.
20. As work progresses, build-in anchor bolts, and other items embedded in masonry.
21. Remove excess mortar and smears upon completion of masonry work.
- a. Clean soiled surfaces of all masonry work exposed to view using sand and water, fiber brushes and soap as required. Remove all dirt, mortar, stains and other defacements.
22. Clean and remove all mortar droppings from floor.
23. Cover tops of walls when work is not in progress.

- DIVISION 5 - METALS
- SECTION 05540 - ARCHITECTURAL METAL FABRICATIONS
1. Work includes miscellaneous shop fabricated ferrous metal items, including but not limited to:
- a. Loose steel lintels at masonry openings
 - b. Pipe Bollards
 - c. Steel Trash Enclosure Gates & Frames
 - d. Trench Drain Covers
 - e. Counter / Vanity Supports
 - f. Miscellaneous Framing, supports and trim.
2. Materials:
- a. Steel Sections: ASTM A36.
 - b. Steel Tubing: ASTM A500 or ASTM A501.
 - c. Steel Pipe: ASTM A53, Grade B, standard weight (Schedule 40).
 - d. Malleable Iron Castings: ASTM A47.
 - e. Bolts, Nuts, and Washers: ASTM A307.
 - f. Welding Materials: AWS D1.1, type required for materials being welded.
 - g. Primer SSPC-Paint 2, for shop application and field touch-up.
3. Fabrication:
- a. Verify dimensions in field prior to shop fabrication.
 - b. Fabricate items with joints tightly fitted and secured.
 - c. Fit and shop assemble in largest practical sections, for delivery to site.
 - d. Prime paint items schedule to provide a uniform dry film thickness of 2.0 mils.
 - e. Ladders:
 - 1) Fabricate ladders for the locations shown, with dimensions; spacing, details and anchorage as indicated. Comply with the requirements of ANSI A 14.3, except as otherwise indicated.
 - a) Unless otherwise shown, provide 12" x 2-1/2" continuous structural steel flat bar side rails with eased edges, spaced 24" apart.
 - b) Provide 3/4" diameter solid structural steel bar range, spaced 12" o.c.
 - 2) Fit rungs in centerline of side rails, plug weld and grind smooth on outer rail faces.
 - 3) Support each ladder at top and bottom and at intermediate points, spaced not more than 5'-0" o.c. Use welded or bolted steel brackets, designed for adequate support and anchorage, and to hold ladder clear of the wall surface with a minimum of 7" clearance wall to centerline of rungs. Return rails to wall or structure unless other secure handholds are provided.
 - 4) Provide non-slip surface on top of each rung, either by coating the rung with aluminum oxide granules set in epoxy resin adhesive, or by using a type of manufactured rung which is filled with aluminum oxide grout.

4. PIPE BOLLARDS
- a. Fabricate pipe bollards from Schedule 80 steel pipe.
5. ROUGH HARDWARE
- a. Furnish bent, or otherwise custom-fabricated, bolts, plates, anchors, hangers, dowels, and other miscellaneous steel and iron shapes as required for framing and supporting woodwork, and for anchoring or securing woodwork to concrete or other structures. Straight bolts and other stock rough hardware items are specified in Division 6 Sections.
 - b. Fabricate items to sizes, shapes, and dimensions required. Furnish malleable-iron washers for heads and nuts that bear on wood structural connections, and furnish steel washers elsewhere.

SECTION 05580 - SHEET METAL FABRICATIONS

1. This Section includes the following:
- a. Stainless Panels and trim.
2. Sheet Metal
- a. General: Provide sheet metal selected for surface flatness, smoothness, and freedom from surface blemishes where exposed to view in the finished unit. Do not use materials with pitting, seam marks, roller marks, variations in flatness exceeding those permitted by referenced standards for stretcher-leveled metal sheet, stains, discoloration, or other imperfections.
 - b. Steel Sheet: Commercial-quality, cold-rolled, stretcher-leveled, carbon-steel sheet, complying with the following requirements:
 - 1. Uncoated Steel Sheet: ASTM A 366 (ASTM A 366M), Class 1, matte finish.
 - c. Stainless-Steel Sheet: ASTM A 167, Type 302 or 304, stretcher leveled, with the following mill finish:
 - 1. Polished for surfaces requiring little or no polishing after fabrication to produce the uniform polished finish specified under the "Stainless-Steel Finishes" Article.
3. Miscellaneous Materials
- a. Welding Electrodes and Filler Metal: Type and alloy of filler metal and electrodes as recommended by producer of metal to be welded, complying with applicable AWS specifications, and as required for strength and compatibility in the fabricated items.
 - 1. Use filler metals and welding procedures that will blend with and match the color of sheet metal being joined and will avoid discoloration at welds.
 - b. Fasteners: Of same basic metal and alloy as fastened metal, unless otherwise indicated. Do not use metals that are corrosive or incompatible with metals joined.
 - 1. Provide concealed fasteners for interconnection of sheet metal fabrications and for attaching them to other work except where exposed fasteners are unavoidable or are the standard fastening method.
 - 2. Provide Phillips flat-head machine screws for exposed fasteners, unless otherwise indicated.
 - 3. Provide neoprene washers for all fasteners, unless otherwise indicated.
 - c. Nonstructural Anchors: For applications not indicated to comply with design loadings, provide anchors of type, size, and material required for type of loading and installation indicated, as recommended by the manufacturer from options listed below, unless otherwise indicated. Use nonferrous metal or hot-dip galvanized anchors for exterior installations and elsewhere as required for corrosion resistance.
 - 1. Powder-actuated fasteners.
 - 2. Metal expansion sleeve anchors.
4. Steel Sheet Finishes
- a. Surface Preparation: Solvent-clean surfaces to comply with SSPC-SP 1 to remove dirt, oil, grease, and other contaminants that could impair paint bond. Remove mill scale and rust, if present, from uncoated steel to comply with SSPC-SP 5 (White Metal Blast Cleaning) or SSPC-SP 8 (Pickling).
 - b. Pretreatment: Immediately following surface preparation, apply a conversion coating of type suited to organic coating applied over it.
 - c. Factory Priming for Field-Painted Finish: Apply shop primer specified below immediately following surface preparation and pretreatment.
 - 3. Shop Primer for Ferrous Metal: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with performance requirements of FS TT-4064 selected for good resistance to normal atmospheric corrosion, compatibility with finish paint systems indicated, and capability to provide a sound foundation for field-applied topcoats despite prolonged exposure.

- 5. Stainless Steel Finishes
 - a. Bright, Directional Polish: AISI No. 3 finish.

SEE STRUCTURAL DRAWINGS FOR REMAINING STEEL & METAL SPECIFICATION SECTIONS.

DIVISION 6 - WOOD & PLASTICS

SECTION 06100 - CARPENTRY

1. Framing Lumber: American Softwood Lumber Standards PS20, S4S, 19% maximum moisture content, with the following minimum work tolerances:
- a. Bending (fb) = 1500 psi
 - b. Horizontal Shear (fv) = 95 psi
 - c. Compression Perpendicular to Grain (fc) = 390 psi
 - d. Modulus of Elasticity (E) = 1,500,000
2. Plywood: PS1, factory marked with appropriate APA trademark. Wafer or particle board is not acceptable. Protect all plywood from moisture by use of all required waterproof covering until the plywood has in turn been covered with the next succeeding component of finish.
- a. Wall sheathing: APA rated sheathing, 3/216, 1/2" nominal, Exposure 1.
3. Building felt: ASTM D226, No. 15 asphalt saturated felt.
4. Building Wrap:
- a. At EIFS or Stucco: Tyvek "Stucco Wrap," by DuPont Company, Wilmington, Delaware.
 - b. At all other locations: Tyvek "Commercial Wrap," by DuPont Company, Wilmington, Delaware.
5. Nails, Spikes, and Staples: Galvanized for exterior locations and treated wood; plain finish for other interior locations; size and type to suit application.
6. Bolts, Nuts, Washers, Lags, Pins, and Screws: Medium carbon steel, sized to suit application, galvanized for exterior locations and treated wood, plain finish for other interior locations.
7. Fasteners: Toggle bolt type for anchorage to hollow masonry. Expansion shield and lag bolt type for anchorage to solid masonry or concrete. Bolts or power activated type for anchorage to steel.
8. Erect wood framing, furring, stripping, plywood backing and nailing members true to lines and levels. Do not deviate from true alignment more than 1/4 inch.
9. Comply with NFPA National Design Specification for Wood Construction recommendations for sizes and openings of members, nailing schedule, and for framing openings if sizes, spaces, or opening framing are not indicated.
10. Provide blocking for support of wall mounted cabinetwork, hardware, toilet partitions, urinal screens, toilet accessories, and plumbing fixtures unless other means of support is indicated.
11. Do not splice structural members between supports.

DIVISION 6 - WOOD & PLASTICS (CONT.)

SECTION 06200 - FINISH CARPENTRY

1. Softwood Lumber: Graded in accordance with the requirements of AWI Quality Standards; maximum moisture content of 6 percent for interior work and 10 percent for exterior work.
2. Softwood Plywood: Graded in accordance with AWI Quality Standards; exterior material of Birch Veneer, paint grade veneer, or plastic laminate as indicated.
3. Plastic Laminates: NEMA LD-3; GP-50 for horizontal and vertical surfaces over marine plywood CL-20 for backing and unexposed surfaces.
4. Nails: Size and type to suit application.
5. Bolts, Nuts, Washers, Lags, Pins, and Screws: Size and type to suit application.
6. Interior Wood Trim:
- a. General: Work solid stock to patterns shown. Standard shape materials shall conform to patterns indicated in current grading rules for the species.
 - b. Interior Wood Trim:
 - 1. General Use (Paint): Contractor's option; "C" Select Grade Southern Yellow Pine (Douglas Fir Alternate)
 - 2. Natural Finish (Stain): Select Grade, quarter sliced Red Oak, AWI, Grade 1.
 - c. Interior Finish Plywood: 3/4 inch paint grade, lumber core, oak plywood
 - d. Frames: Same as for interior wood trim.
 - e. Shaving: 3/4 inch AB Grade Oak plywood with exposed edges edgebanded.
 - f. Nails: FS FF-N-103c and FF-N- 105a. Stainless steel for Redwood.
 - g. Screws: FS FF-S-11 lb.
 - h. Lag Screws and Bolts: FS FF-B-561, type and grade best suited for purpose used.
 - i. Toggle Bolts: FS FF-B-58B.
7. Exterior Wood Trim:
- a. Solid wood: For opaque or satin finish, "C" select grade yellow or white pine, location as indicated on plan.
 - b. Plywood: Smooth finish cedar plywood.
 - c. Exterior Wood Trim: Contractor's option: Redwood S4S #1, Cedar S4S #1, "C" Select Grade Yellow Pine or Fir.
8. Fabricate finish carpentry and cabinetwork items in accordance with AWI Quality Standards "Custom Grade", and Section 400 of the AWI Guide. Shop fabricate items where possible.
9. Apply plastic laminate finish in full-uninterrupted sheets consistent with manufactured sizes. Corners and joints to be hairline.
10. Cap exposed plastic laminate edges with material of same finish and pattern.
11. Use exposed fastening devices or nails only when unavoidable.
12. Sand work smooth and set exposed nails and screws. Eliminate hammer marks and other defects. Apply wood filler in exposed nail and screw indentations and leave ready to receive site applied finishes.
13. Set and secure finish carpentry and cabinetwork items in place, rigid, plumb, and square.
14. Install and adjust cabinet hardware to correct operation.
15. Finish woodwork shall be set straight, plumb or level, closely fitted and rigidly fastened. Nail heads of exposed work shall be set for putty and other fasteners shall be concealed.
16. Joints shall be tight and formed to conceal shrinkage. All trim shall be mitered; no butt joints permitted interior corners shall be coped.
17. Install doors plumb, true and fitted properly. Leave in perfect working order. Warped doors will be rejected and shall be replaced. Neatly mortise, drill, and anchor all hardware.
18. Conceal fasteners wherever possible. Where not possible, locate them in an inconspicuous place. Where nails or screw attachment occurs in woodwork face, countersink, putty and sand smooth.

SECTION 06255 - FIBERGLASS REINFORCED PANELS

1. FRP panel: 48" wide, 3/32" thickness, white unless noted otherwise.
- Approved Manufacturers:
- a. Kemlite
 - b. Marite
2. FRP Accessories:
- a. All moldings, trim, adhesive and other accessories shall be as manufactured and recommended by the same manufacturer as panels.
3. Sealant:
- a. One part Silicone Rubber, ASTM C920 and FS TT-S-001543A, FDA approved, or as recommended by FRP manufacturer.
 - b. Color: Clear to translucent
4. Install panels over water resistant drywall in strict accordance with manufacturers recommendations, using non-flammable adhesive (100% coverage).
- a. Drywall must be installed (and all joints taped) floor to ceiling to provide a good bondable surface to accept installation of FRP panels.
5. Discard units of material which are unsound, warped, bowed, twisted, improperly treated, or too small to fabricate, work with minimum of joints or optimum jointing arrangements, or which are of defective material with respect to surfaces, sizes, or patterns.
6. Scribe and cut panels to fit adjoining work.
- a. Caulk all joints and all moldings with silicone sealant.
7. Panels to be applied to the wall with the 48" dimension horizontal, and in lengths to extend from base to ceiling with no intermediate horizontal joints.
- a. Install the work plumb, level, true and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level, and with 1/16" maximum offset in flush adjoining surfaces.

8. Caulk all joints and all moldings with silicone sealant.
9. Panels to be applied to the wall with the 48" dimension horizontal, and in lengths to extend from base to ceiling with no intermediate horizontal joints.
- a. Install the work plumb, level, true and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level, and with 1/16" maximum offset in flush adjoining surfaces.

DIVISION 7 - THERMAL PROTECTION & WATERPROOFING

SECTION 07210 - BUILDING INSULATION

1. Batt Insulation: Pre-formed glass fiber batt; blankets with foil face membrane covering; per ASTM C665, Type II; densities of not less than 0.5 lb. per cu. ft. for glass fiber units, K-value of 0.27; flame spread of 25 or less, ASTM E84 (Class A), 6" R-19 unless otherwise noted.
- a. CertainTeed Corp.
 - b. Schuller International
 - c. Owens-Corning Fiberglass Corp.
 - d. United States Gypsum Co.
 - e. Knaf Fiberglas
2. Perimeter Insulation: Rigid, cellular thermal insulation with closed-cells and integral high density skin, formed by the expansion of polystyrene base resin in an extrusion process to comply with ASTM C576 for type I indicated; with 5-year aged K-values of 5.4 and 5 at 40 and 75 deg. F (4.4 and 23.9 deg. C.) respectively, 1" thickness unless otherwise noted.
- a. Dow Chemical Co. - Styrofoam 250
 - b. Owens-Corning - Foamular Z50
 - c. Diversifoam Products - Certifoam SE
 - d. Amoco Foam Products - Armofoam CM
3. Sound attenuation insulation: USG "SAFB", 2.5 pound/cu. ft., density, no substitution.
4. Installation accessories and adhesives shall be as recommended by insulation manufacturer for type of application and condition of substrate.
5. Install batt insulation in accordance with manufacturer's instructions.
- a. Place batt insulation in partitions tight within spaces, around cut openings, behind and around electrical and mechanical items within or behind partitions and tight to items passing through partitions.
 - b. Trim insulation neatly to fit spaces. Fill gaps or voids with insulation.
 - c. Install insulation with factory applied membrane facing warm side of building spaces.
6. Secure rigid insulation to substrate surfaces. Stagger joints 0" where multi-layered. Cut and shape to sub state conditions.

SECTION 07240 - EXTERIOR INSULATION AND FINISH SYSTEMS

1. Section Includes Insulation and applied finish, reinforcing and coating Adhesives
2. References
- a. ASTM C578 preformed cellular polystyrene thermal insulation.
3. Conform to applicable code of system fire resistance and flame/smoke ratings for finish system.
4. Finish Materials
- A. Insulation: Extruded polystyrene insulation board shall meet ASTM C578, Type VI, and Federal Specifications #HH-1-524-B, Type 1, Class A, with a flame spread of less than 25 according to Underwriters Laboratory Test Method UL-723. Polystyrene board shall have a density of 1.0 lbs. Per cu. Ft. and a K value equal to 0.23 per inch. Thickness shall be as shown on drawings. In addition, all insulation board shall be aged (air dried) for a period of six weeks before use. Insulation board shall be square to within 1/32" per ft., with a thickness tolerance of +1/16"
 - B. Mechanical Fasteners: As recommended by manufacturer, provide wind plates used in conjunction with corrosion resistant fasteners appropriate to bond EPS foam board to substrate system.
 - C. Portland Cement: ASTM C-150, Type 1
 - D. Reinforcing Fabric: Manufacturer's standard, balanced open weave glass fiber fabric made from twisted multi-end strands, specifically treated for compatibility with finish materials.
 - E. High Impact Reinforcing: Manufacturer's standard, heavy duty glass fiber reinforcing mesh.
 - F. Finish: 100 percent, acrylic based coating, integral color and texture as indicated on the drawings.
5. FINISH APPLICATION:
- A. Install all materials in complete accord with system manufacturer's printed specifications and/or recommendations.
 - B. Insulation: Apply insulating board to backing surface with mechanical fasteners in a running bond pattern. Insulation shall be applied in largest pieces possible, run horizontally, with mechanical fasteners spaced per manufacturer's design standards.
 - C. High Impact Reinforcing Fabric: Embed high impact reinforcing fabric in a 1/8 inch bed coat of adhesive fully, so mesh pattern is concealed. Apply high impact fabric throughout work to all areas below 6'-0".
 - D. Reinforcing Fabric: Wait a minimum of 24 hours after completing high impact fabric, then embed reinforcing fabric in a bedding coat of adhesive applied to all insulation board and over previously installed high impact reinforcing areas. Apply adhesive thick enough to ensure no fabric is exposed.
 - E. Finish Coating: Apply the finish coating over reinforcing fabric. Finish shall be troweled light and floated to approved.

SECTION 07540 - THERMOPLASTIC POLYOLEFIN (TPO) ROOFING

1. Performance Requirements
- a. General: Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.
 - b. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing membrane manufacturer based on testing and field experience.
 - c. FMG Listing: Provide roofing membrane, base flashings, and component materials that comply with requirements in FMG-4450 and FMG-4470 as part of a membrane roofing system and that are listed in FMG's "Approval Guide" for Class 1 or noncombustible construction, as applicable. Identify materials with FMG markings.
 - 1. Fire/Windstorm Classification: Class 1A- 90.
 - 2. Hail Resistance: SH.
2. Submittals
- a. Product Data: For each type of product indicated.
 - b. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Base flashings and membrane terminations.
 - 2. Tapered insulation, including slopes.
 - 3. Insulation fastening patterns.
 - c. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
 - 1. Submit evidence of meeting performance requirements.
 - d. Maintenance Data: For roofing system to include in maintenance manuals.
 - e. Warranties: Special warranties specified in this Section.
3. Inspection Report: Copy of roofing system manufacturer's inspection report of completed roofing installation.
4. Warranty
- a. Special Warranty: Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks.
 - 1. Special warranty includes roofing membrane, base flashings, roofing membrane accessories roof insulation fasteners cover boards substrate board vapor retarder walkway products and other components of membrane roofing system.
 - 2. Warranty Period: 15 years from date of Substantial Completion.
 - b. Special Project Warranty: Submit roofing Installer's warranty, on warranty form at and of this Section, signed by Installer, covering Work of this Section, including all components of membrane roofing system such as roofing membrane, base flashing, roof insulation, fasteners, cover boards, substrate boards, vapor retarders, roof pavers, and walkway products, for the following warranty period:
 - 1. Warranty Period: Two years from date of Substantial Completion.
4. Thermoplastic Polyolefin Roofing Membrane
- a. Fabric-Reinforced Thermoplastic Polyolefin Sheet: Uniform, flexible sheet formed from a thermoplastic polyolefin, internally fabric or scrim reinforced, and as follows:
 - 1. Thickness: 60 mils, nominal.
 - 2. Exposed Face Color: White.
 - 3. Physical Properties:
 - a. Breaking Strength: 225 lbf; ASTM D 751, grab method.
 - b. Elongation at Break: 15 percent; ASTM D 751.
 - c. Tearing Strength: 55 lbf minimum; ASTM D 751, Procedure B.
 - d. Brittleness Point: Minus 22 deg F.
 - e. Ozone Resistance: No cracks after sample, wrapped around a 3-inch diameter mandrel, is exposed for 166 hours to a temperature of 104 deg F and an ozone level of 100 ppbm; ASTM D 1149.
 - f. Resistance to Heat Aging: 90 percent minimum retention of breaking strength, elongation at break, and tearing strength after 166 hours at 240 deg F; ASTM D 573.
 - g. Water Absorption: Less than 4 percent mass change after 166 hours' immersion at 158 deg F; ASTM D 471.
 - h. Linear Dimension Change: Plus or minus 2 percent; ASTM D 1204.
5. Auxiliary Materials
- a. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with membrane roofing.
 - 1. Liquid-type auxiliary materials shall meet VOC limits of authorities having jurisdiction.
 - b. Sheet Flashing: Manufacturer's standard unreinforced thermoplastic polyolefin sheet flashing, 55 mils thick, minimum, of same color as sheet membrane.
 - c. Bonding Adhesive: Manufacturer's standard solvent-based bonding adhesive for membrane, and solvent-based bonding adhesive for base flashings.
 - d. Slip Sheet: Manufacturer's recommended slip sheet, of type required for application.
 - e. Metal Termination Bars: Manufacturer's standard prefilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch thick; with anchors.
 - f. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.
 - h. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, termination reglets, cover strips, and other accessories.

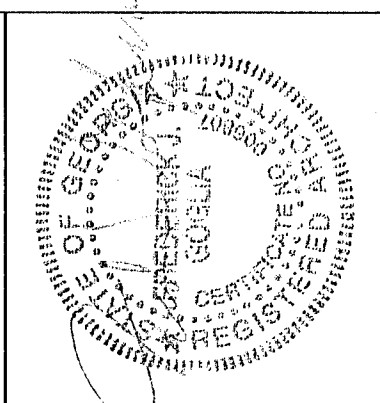
6. Roof Insulation
- a. General: Provide preformed roof insulation boards that comply with requirements and referenced standards, selected from manufacturer's standard sizes and of thicknesses indicated.
 - b. Polystyrenurate Board Insulation: ASTM C 1269, Type II, felt or glass-fiber mat facer on both major surfaces.
 - c. Tapered Insulation: Provide factory-tapered insulation boards fabricated to slope of 1/4 inch per 12 inches, unless otherwise indicated.
 - d. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated.

7. Insulation Accessories
- a. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatible with membrane roofing.
 - b. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.
 - c. Cold Fluid-Applied Adhesive: Manufacturer's standard cold fluid-applied adhesive formulated to adhere roof insulation to substrate.
 - d. Cover Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, 1/4 inch thick.
 - 1. Product: Subject to compliance with requirements, provide "Dens-Deck" by Georgia-Pacific Corporation.
 - e. Metal Securement System: Perimeter securement flashing and strapping fabricated from stainless steel, a minimum of 0.031 inch thick. Provide fasteners as recommended by mortar-faced insulation manufacturer.
 - f. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway pads, approximately 24 x 24 inch x 3/16 inch thick, and acceptable to membrane roofing system manufacturer.
8. Insulation Installation
- a. Coordinate installing membrane roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.
 - b. Comply with membrane roofing system manufacturer's written instructions for installing roof insulation.
 - c. Install tapered insulation under area of roofing to conform to slopes indicated.
 - d. Install one or more layers of insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2 inches (50 mm) or greater, install 2 or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches (150 mm) in each direction.
 - e. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.
 - f. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
 - 1. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.
 - h. Mechanically Fastened Insulation: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.
 - 1. Fasten insulation according to requirements in FMG's "Approval Guide" for specified Windstorm Resistance Classification.
 - 2. Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof.
 - i. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Stagger joints from joints in insulation below a minimum of 6 inches (150 mm) in each direction. Loosely but cover boards together and fasten to roof deck.
 - 1. Fasten according to requirements in FMG's "Approval Guide" for specified Windstorm Resistance Classification.
 - 2. Fasten to resist uplift pressure at corners, perimeter, and field of roof.
9. Adhered Membrane Roofing Installation
- a. Adhere membrane roofing over area to receive roofing and install according to membrane roofing system manufacturer's written instructions.
 - b. Start installation of membrane roofing in presence of membrane roofing system manufacturer's technical personnel.
 - c. Accurately align membrane roofing and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
 - d. Bonding Adhesive: Apply to substrate and underside of membrane roofing at rate required by manufacturer and allow to partially dry before installing membrane roofing. Do not apply to splice area of membrane roofing.
 - e. In addition to adhering, mechanically fasten membrane roofing securely at terminations, penetrations, and perimeter of roofing.
 - f. Apply membrane roofing with side laps shingled with slope of roof deck where possible.
 - g. Seams: Clean seam areas, overlap membrane roofing, and hot-air weld side and end laps of membrane roofing and sheet flashings according to manufacturer's written instructions to ensure a watertight seam installation.
 - 1. Test lap edges with probe to verify seam weld continuity. Apply lap sealant to seal cut edges of sheet membrane.
 - 2. Verify field strength of seams a minimum of twice daily and repair seam sample areas.
 - 3. Repair tears, voids, and lapped seams in roofing that does not comply with requirements.
 - h. Spread sealant bed over deck drain flange at roof drains and securely seal membrane roofing in place with clamping ring.
10. Membrane Splicing/Hot Air Welding Procedures
- a. Hot air weld the Sure-Weld membrane using an Automatic Hot Air Welding Machine or Hot Air Hand Welder in accordance with the manufacturer's specifications. At all splice intersections, roll the seam with a silicone roller prior to membrane seam cooling. When using .060" thick membrane, all splice intersections shall be overlaid with non-reinforced flashing.
 - b. Probe all seams once the hot air welds have thoroughly cooled (approximately 30 minutes).
 - c. Repair all seam deficiencies the same day they are discovered.
 - d. Apply Cut Edge Sealant on all cut edges of reinforced membrane (where the scrim reinforcement is exposed) after seam probing is complete.
11. Base Flashing Installation
- a. Install sheet flashings and preformed flashing accessories and adhere to substrates according to membrane roofing system manufacturer's written instructions.
 - b. Apply solvent-based bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply bonding adhesive to seam area of flashing.
 - c. Flash penetrations and field-formed inside and outside corners with sheet flashing.
 - d. Clean seam areas and overlap and firmly roll sheet flashings into the adhesive. Weld side and end laps to ensure a watertight seam installation.
 - e. Roof Walkways: Install walkway pavers according to manufacturer's written instructions in locations indicated, to form walkways. Leave 3 inches (75 mm) of space between adjacent roof pavers.

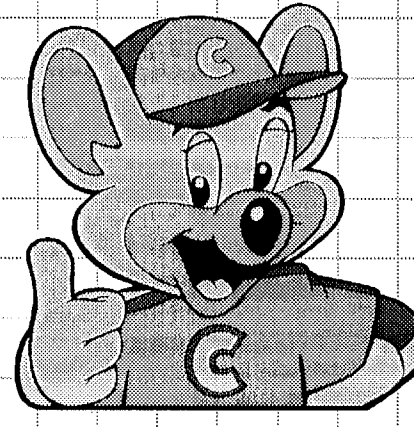
SECTION 07620 - SHEET METAL FLASHING AND TRIM

1. Zinc-Coated Steel: Commercial quality with 0.20 percent copper, ASTM A526, except ASTM A527 for lock-forming, G90 hot-dip galvanized, mill phosphatized for painting; 24 gauge, except as otherwise indicated.
2. Solder: For use with steel, provide 50-50 tin/lead solder. ASTM B52 with rosin flux.
3. Fasteners: Same metal as flashings/sheet metal or other noncorrosive metal as recommended by sheet manufacturer. Match finish of exposed heads with material being fastened.
4. Bituminous Coating: SSPC-Paint 12, solvent type bituminous mastic, nominally free of sulfur, compounded for 15-mil. dry film thickness per coat.
5. Roofing Cement: ASTM D4586, asphaltic.
6. General Metal Fabrication: Shop-fabricate work to greatest extent possible. Comply with details shown, and with applicable requirements of SMACNA "Architectural Sheet Metal Manual" and other recognized industry practices. Fabricate for waterproof and weather resistant performance, with expansion provisions for running work, sufficient to permanently prevent leakage, damage, or deterioration of the work. Form work to fit substrates. Comply with material manufacturer instructions and recommendations for forming material. Form exposed sheet metal work without excessive oil-canning, buckling, and tool marks, true to line and levels indicated, with exposed edges folded back to form haens.
- a. Fabricate non-moving seams in sheet metal with flat-lock seams. For metal other than aluminum, trim sides to be seamed, form seams and solder. Form aluminum seams with epoxy seam sealer, rivet joints for additional strength where required.
 - b. Where tapered or bayonet-type expansion provisions in work cannot be used, or would not be sufficiently water-weatherproof, form expansion joints of inter-meshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).
 - c. Where movable, non-expansion type joints are indicated or required for proper performance of work, form metal to provide for proper installation of elastomeric sealant, in compliance with SMACNA standards.
7. Comply with installation instructions and recommendations of SMACNA "Architectural Sheet Metal Manual". Anchor units of work securely in place, providing for thermal expansion of metal units, provided fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams which will be permanently watertight and weatherproof.
8. Clean exposed metal surface, removing substances which might cause corrosion of metal or deterioration of finishes.

REGISTERED SEAL



FREDERICK J. GOGLIA
ARCHITECT, NCA#B ISP
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
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CHUCKECHEESE'S
RICHMOND PLAZA SHOPPING CENTER
3435 WRIGHTSBORO ROAD
AUGUSTA, GA 30909
STORE# 939

PROJECT NO.	DATE	REV.	DESCRIPTION	NAME
101-301				
DESIGNED BY				
CHECKED BY				
ISSUE DATE				

03/11/11
ARCHITECTURAL SPECIFICATIONS

SECTION 07631 - GUTTERS AND DOWNSPOUTS

- References
 - SMACNA - Architectural Sheet Metal Manual
- Conform to SMACNA Manual for sizing components for rainfall intensity determined by a storm occurrence of 1 in 5 years.
- Conform to applicable code for size and method of rainwater discharge.
- Deliver, store, and protect products on site.
- Stack preformed material to prevent twisting, bending, or abrasion, and to provide ventilation. Slope to drain.
- Prevent contact with materials during storage, which may cause discoloration, staining, or damage.
- Galvanized Steel:** ASTM A361, G90 zinc coating; 24 gauge core steel.
- Components
 - Gutters:** SMACNA Half round
 - Downspouts:** SMACNA Round profile
 - Accessories:** Profiled to suit gutters and downspouts.
- Accessories
 - Anchorage devices:** SMACNA requirements or type recommended by fabricator.
 - Gutter and Downspout Supports:** Brackets
 - Fasteners:** Galvanized steel with soft neoprene washers. Finish exposed fasteners same as flashing metal.
 - Protective Back Coating:** FS TT-C-494, bituminous.
 - Solder:** ASTM B32; 50/50 type.
 - Flux:** FS O-F-506.
- Form gutters and downspouts of profiles and sizes indicated, to SMACNA requirements.
- Form sections square, true, and accurate in size, in maximum possible lengths, free of distortion or defects detrimental to appearance or performance. Allow for expansion at joints.
- Hem exposed edges of metal.
- Solder shop formed metal joints. After soldering, remove flux. Wipe and wash solder joints clean. Weather seal joints.
- Fabricate gutter and downspout accessories; seal watertight.
- Apply bituminous protective backing on surfaces in contact with dissimilar materials.
- Installation
 - Install gutters, downspouts, and accessories in accordance with manufacturer's instructions.
 - Join lengths with formed seams sealed or soldered watertight. Flash and seal gutters to downspouts and accessories.
 - Connect downspouts to downspout boots. Grout connection watertight.

SECTION 07722 - ROOF HATCHES

- SECTION INCLUDES
 - Furnish labor, materials, services, equipment and appliances required for roof hatch work indicated on the Drawings and specified herein.
- SUBMITTALS
 - Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Show details, hardware, locking devices, flashing, insulation and anchors. Include manufacturer's installation instructions. Detail to serve as installation drawings. Owner's acceptance is required prior to start of fabrication and/or shipment.
- MANUFACTURER
 - The Drawings were prepared and this Specification written on the basis of using the products of the Bilco Company, New Haven, Connecticut. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.
- ROOF HATCHES
 - Type "S-20": completely assembled:
 - Cuts:** 14 gage prime painted steel with 22 gauge steel liner; 12 inches high; extended flanges for mounting with screws; integral cap flashing of same gage of material as curb.
 - Covers:** Same materials and gages as curbs; continuous Neoprene gasket weatherproof seal.
 - Quit and Cover Insulation:** One inch thick rigid.
 - Hardware:** Heavy duty prime hinges, manually operated compression spring operators enclosed in telescopic tubes, positive snap latches with plated turn handles inside and out, automatic hold-open arm with vinyl grip handle; cadmium plated finish.
- FABRICATION
 - Fabricate free of visual distortions and defects. Weld corners and joints. Provide for removal of condensation. Provide weather-tight assembly.
- PROTECTION
 - Cover and protect hatches from damage before and after installation. Replace damaged covers at no additional cost to Owner.
- INSTALLATION
 - Install in accord with manufacturer's instructions. Coordinate with installation of roofing system and related flashings. Provide weather-tight installation. Apply bituminous paint on metal surfaces of units in contact with cementitious materials and dissimilar metals.

SECTION 07920 - SEALANTS AND CAULKING

- Sealant Type 1: One component, acrylic latex, for interior non-moving joints.
 - Sonneborn: "Sonolac" or equal.
- Sealant Type 2: One component urethane, gun-grade, non-sag, for interior or exterior concealed moving joints, thresholds end architectural seal metal.
 - Sonneborn "NP1" or equal.
- Sealant Type 3: Multi-component urethane, gun-grads non-sag, for interior or exterior exposed moving joints (other than pavements), door and window frames, and other weathertight locations.
 - Sonneborn "NP2" or equal.
- Sealant Type 4: One component, urethane, gun-grades or pourable, self-leveling for interior or exterior horizontal joints.
 - Sonneborn "Sonalastic SL1" or equal.
- Primer: Non-staining type, recommended by sealant manufacturer to suit application. Unpainted, porous surfaces shall be primed.
- Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint filling materials.
- Joint Filler: ASTM D1056, round, closed cell polyethylene foam rod, oversized 30 to 50 percent. Polystyrene is unacceptable.
- Bond Breaker Tape: Pressure sensitive polyethylene tape recommended by sealant manufacturer to suit application.
- Clean, prepare and size joints in accordance with manufacturer's instructions. Remove any loose materials and other foreign matter which might impair adhesion of sealant. Metal surfaces shall be free of corrosion.
- Install joint filler rod to proper depth by rolling material into joint without lengthwise stretching or twisting. Do not puncture or prime filler rod.
- Sealant applications shall be performed in strict accordance with manufacturer's written specifications by tradesmen skilled in the work. Use masking tape to protect adjacent surfaces as necessary.
- All sealing shall be done with neat, smooth tooled beads, free of air pockets, foreign embedded matter, ridges and sags, in firm full contact with interfaces.
- Work adjacent to joints shall be cleaned free of smears of sealant compound as work progresses.

DIVISION 8 - DOORS & WINDOWS

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

- All hollow metal doors and frames shall be furnished by the Contractor. Refer to Door Schedule on drawings.
- Install doors and frames in accordance with SDI-100 and SDI-105 except as amended in this section. Conform with NFPA-80 for fire rated assemblies.
- Install steel doors and frames plumb and square in correct locations indicated on drawings and with a maximum diagonal distortion of 1/16" inch. Ensure that frames are securely and rigidly anchored to adjacent construction.
- Hang door to fit frames closely without binding. Door to come in full contact with stops when closed. Doors shall swing quietly and easily and not strike floors at any point of swing. Doors not equipped with closers shall remain stationary in any intermediate position in which they are left.
- Immediately after installation, touch up surface coating damage with primer paint identical to that used for shop coat. Leave in clean condition, ready for finish paint specified in Section 09900. Install rubber door silencers after frames are given finish coats of paints.

SECTION 08212 - PLASTIC FACED FLUSH WOOD DOORS

- The Drawings were prepared and this Specification written on the basis of using the products of Elason Corporation, Easy Swing Door Division, Kalamazoo, Michigan. Phone Number: 1-800-528-3655. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.
- Door Type
 - Easy Swing, Model SCP4W, decorative doors with pivotal hinges.
 - Face Finish:** Decorative high impact plastic laminate
 - Color:** PL-1 Hollyberry Red.
 - Edge Caps and Base Plates:** 18 inch high kick plate, 18 gauge; 304 #4 stainless steel
 - Hardware:** Manufacturer's standard including jamb guards
 - Windows:** 3/16 inch thick clear acrylic plastic in black rubber molding, 9 inch x 14 inch viewing area mounted a minimum of 48 inches from floor to bottom of panel.
- Delivery, Storage and Handling
 - Scheduling:** Deliver to job site at least two weeks prior to date scheduled for installation, but not before building is enclosed and proper conditions of temperature and humidity are being maintained.
 - Packaging:** Crate or package doors and hardware to protect them during transit, delivery and storage, each package marked or tagged with corresponding door number as it appears on Door Schedule.
 - Storage:** Store doors and hardware at building site under cover. Place doors on at least 4 inch wood sills or on floors in manner that will prevent damage. Do not use non-vented plastic or canvas shelters. Remove wet cartons immediately. Provide 1/4 inch space between doors to promote air circulation.
- Installation
 - Install in accord with manufacturer's instructions. Conform to AWI requirements for fit tolerances.
- Adjusting
 - Adjust for smooth and balanced door movement.

SECTION 08306 - ACCESS PANELS

- Manufacturer
 - The Drawings were prepared and this Specification written on the basis of using the products of J. L. Industries, Bloomington, Minnesota. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.
- Access Panels
 - Model "FD", flush mounted access panel, 24 x 24, UL 1-1/2 hour "B" label, completely assembled as follows:
 - Material:**
 - Door: 20 gauge steel
 - Frame: 16 gauge steel
 - Hardware:**
 - Hinges: Continuous hinges open to 175 with spring closure.
 - Locks: Recessed turn ring with interior latch release device.
 - Locks: Manufacturer's standard for use intended.
 - Finish:** Phosphate dipped steel with factory prime coat.
- Installation
 - Protect access panels from damage. Protect work of other trades during installation. Install access panels in locations indicated, complete in all details, securely anchored in place, plumb, level and parallel with building lines. Finally installed access panels shall open and close freely.

SECTION 08410 - ALUMINUM ENTRANCES AND STOREFRONTS

- Engineering Design:
 - Structural Properties: Fabricate and install work of this Section to withstand wind loads required by governing laws, ordinances, regulations and codes and with a maximum deflection of L/175.
 - Thermal Movement: Fabricate and install systems to provide for expansion and/or contraction of component materials as will be caused by temperature range of 150 degrees F without causing harmful buckling, opening of joints, undue stresses on fasteners, or other detrimental effects.
 - Water Leakage: Fabricate and install systems to deny water leakage; defined as appearance of water, other than condensation, on room side face of any part of systems.
- Submit shop drawings of system proposed. Base on details shown on Drawings, and develop to serve as installation Drawings. Owner's acceptance is required prior to start of fabrication.
- The Drawings were prepared and this Specification written on the basis of using the products of Vistawall, Terrell, TX (214) 796-3881. Contact: Eric Loucel.
- Storefront Framing:
 - "FG3800 Series Storefront System" for 1" glaze system, size 2" x 4-1/2", reinforced if required by Engineering design.
 - FG2000 Series Storefront System" for 1/4" glaze system, size 2" x 4-1/2", at interior locations.
 - Fasteners: Standard fastening screws shall be either stainless steel or carbon steel plated against electrolytic action.
 - Finish: Dark Bronze Anodized Aluminum conforming to AA-M12C22A31 and AAMA 607.1.
- Doors and Hardware:
 - Visual - Wide-slate entrance door, to match drawings, 1/8 inch thick tempered glass; Color to be Valspar # 384A229 Fluorpon primer w/ Hollyberry Surface Coat.
 - Fasteners: Standard fastening screws shall be either stainless steel or carbon steel plated against electrolytic action.
 - Hardware (Refer to Hardware Schedule for catalogue numbers.)
 - Pivots: Manufacturer's standard.
 - Closers: Manufacturer's standard concealed floor type, one each leaf.
 - Panic Devices: Manufacturer's standard "paddle handle", one each leaf.
 - Push-Pulls: Manufacturer's standard, one each leaf.
 - Dead Locks: Manufacturer's standard, one each single or pair.
 - Lock Cylinders: Furnished as part of builders hardware.
 - Thresholds: 4-inch wide aluminum, handicapped accessible (exterior only).
- Fabrication Finish: As indicated in the Hardware Schedule.
- Hardware:
 - Storefront Framing: Fabricate and assemble in shop to greatest extent possible. Cut carefully and accurately. Use compression joints between vertical and horizontal mullions, with gasket of non-hardening butyl compound. Place standard water dam, in accord with manufacturer's recommendation, between vertical and horizontal members and seal with liquid butyl compound. Provide vision and spandrel areas with drainage to outdoors in horizontal members. Sizes of components and necessary field connections and fastenings required for installation; permit easy assembly by means of standard construction equipment and tools without use of special apparatus or appliances.
 - Doors: Fabricate doors with tight, hairline joints where rails are fitted against stiles, and fasten by means of tensioned steel tie-rods in top and bottom rails. Provide adjusting mechanism in top rail to provide for minor clearance adjustments. Glass stops; snap-in type with bulb type glazing strips. Weatherstripping; pile. Provide adjustable pile weatherstrip on one stile at meeting stiles of pairs of doors.

SECTION 08710 - FINISH HARDWARE

- All door hardware shall be furnished by the Contractor. A Hardware Schedule is shown on drawings for further information.
- Install hardware in accordance with manufacturer's recommendations, using proper templates.
- Do not install surface-mounted items until finishes have been completed on the substrate.
- Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- Drill and countersink units, which are not factory-prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- Mount hardware units as indicated in DHI "Recommended Locations for Builders" Hardware for Standard Steel Doors and Frames."
- Through-bolt all door closers.
- Screw thresholds to substrate with No. 10 or larger stainless steel screws of the proper type for permanent anchorage of threshold.
 - Set thresholds at exterior doors in a bed of mastic sealant to completely fill concealed voids and exclude moisture from every source. Do not plug drainage holes or block weeps. Remove excess sealant.
- Surface mounted weather-stripping shall be installed prior to other surface mounted hardware, without breaks. Coordinate hardware accessories to suit continuous weatherstrip.
- Clean operating items as necessary to restore proper function and finish of hardware.
- Adjust door control devices to compensate for final operation of heating and ventilating equipment.
- Hardware Supplier: Contact the following:
 - Universal Manufacturing; Contact: Theresa Land, Phone: 1-901-458-5881.

SECTION 08810 - GLASS AND GLAZING

- Floot Glass: 1/4-inch thick, clear float (plate) glass
- Tempered Glass: 1/4-inch thick, clear "Herculite" tempered safety glass
- Insulating Glass: "Solarban 60 (2)", 1 (one) inch thick, clear, double glazed (tempered where noted on drawings), insulating glass units shall comply with ASTM E774.
- Mirror Glass: 1/4-inch thick highly polished plate glass, scratch resistant, hermetically sealed with a uniform coating of electrolytic copper plating; FS #DDM-411.
- Mastic: As recommended by manufacturer.
- Hardware: K & V standards and brackets, satin brass finish.
- Glazing Materials:
 - General: Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials involved for glazing application indicated, and with a proven record of compatibility with surfaces contacted in installation.
 - Cleaners, Primers and Sealers: Type recommended by sealant or gasket manufacturer.
 - Setting Blocks: Elastomeric material with a Shore A durometer hardness of 85 plus or minus 5.
 - Spacers: Elastomeric blocks or continuous extrusions with a Shore A durometer hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
 - Edge Blocks: Elastomeric material of hardness necessary to limit glass lateral movement (side-walking).
 - Plastic Foam Joint Fillers: Preformed, compressible, resilient, nonstaining, nonexpanding, nonoutgassing, strips of closed-cell plastic foam of density, size, and shape to control sealant depth and otherwise contribute to produce optimum sealant performance.
- Replace broken glass and clean all glass prior to final inspection.

DIVISION 9 - FINISHES

SECTION 09100 - METAL STUD FRAMING SYSTEM

- Section includes:
 - Formed metal stud framing
 - Framing accessories
- References
 - ASTM A525 - Standard specification for general requirements for steel sheet, zinc-coated (galvanized) by the hot-dip process.
 - ASTM C645 - Standard specification for non-load (axial) bearing steel studs, runners (track), and rigid turning channels for screw application of gypsum board.
 - ASTM C754 - Standard specification for installation of steel framing members to receive screw-attached gypsum board.
 - ASTM C1002 - Standard specification for steel drill screws for the application of gypsum board or metal plaster bases.
- System Description
 - Maximum allowable deflection: 1/240 span.
 - Wall system:
 - Design to provide for movement of components without damage, failure of joint seals, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges.
 - Design system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.
 - Shop drawings:
 - Indicate component details, stud layout, framed openings, anchorage to structure, type and location of fasteners, and accessories or items required of other related work.
 - Describe method for securing studs or tracks, splicing and for blocking and reinforcement to framing connections.
 - Provide calculations for loadings and stresses of exterior walls.
- Manufacturer
 - United States Gypsum Company, Chicago, Illinois. Or approved equal.
- Stud Framing Materials
 - Framing System Components: ASTM C645.
 - Studs: ASTM A525, Coating Class G-90, non-load bearing rolled steel, channel shaped, punched for utility access, as follows:
 - Depth: 3-5/8 and 6 inches
 - Thickness: 20 gauges unless noted otherwise.
 - Tracks and Headers: Same material and thickness as studs, bent leg retainer notched to receive studs.
 - Furring and Bracing Members: Of same material as studs; thickness to suit purpose.
 - Fasteners: ASTM C1002, self-drilling, self tapping screws.
 - Touch-up Primer for Galvanized Surfaces: SSPC-Paint 20, Type II organic, zinc rich.
- Finishes
 - Studs: Galvanize to G90 coating class.
 - Tracks and Headers: Galvanize to G90 coating class.
 - Accessories: Same finish as framing members.

7. Deliveries and Storage

- Deliver materials in original unopened packages and store in enclosed shelter providing protection from damage and exposure to the elements. Remove damaged or deteriorated materials from premises.
8. Erection
- Align and secure top and bottom runners at 16 inches O.C. at exterior and 16" O.C. at interior unless noted otherwise.
 - Install studs vertically at 16 inches O.C. at exterior and 16" O.C. at interior unless noted otherwise.
 - Secure studs to tracks using fastener method. Do not weld.
 - Stud splicing is not permissible.
 - Fabricate corners using a minimum of three studs.
 - Double stud at wall openings, door and window jambs, not more than 2 inches from each side of openings.
 - Coordinate erection of studs with requirements of door and window frames, install supports and attachments.
 - Grouting: Spot grout frames at jamb anchor clips before panel erection.
 - Coordinate installation of wood bucks, anchors, and wood blocking with electrical and mechanical work to be placed within or behind stud framing.
 - Blocking: Secure wood blocking to studs. Install blocking for support of plumbing fixtures, toilet partitions, wall cabinets, toilet accessories, hardware, and opening frames.
 - Metal Framing Erection (Ceilings)
 - Small Areas: Attach runners at ceiling height, through gypsum panels, to each partition stud. Insert steel studs in runner and attach each end. Install stud cross-bracing over stud framing space 48 inches OC and attach to each framing stud. At openings that interrupt ceiling, install additional cross reinforcing to maintain structural integrity of framing.
 - Large Areas: Install hanger wires, carrying members, furring channels and reinforcing at openings, in accord with systems manufacturer's specifications.

9. Erection Tolerances

- Maximum variation from true position: 1/4 inch in 10 feet.
- Maximum variation from plumb: 1/4 inch in 10 feet.

SECTION 09260 - GYPSUM BOARD SYSTEMS

- Gypsum Panels - Types Required
 - Regular board: ASTM C36, tapered edges, thickness 5/8".
 - Fire rated board: ASTM C36, Type X, tapered edges, thickness 5/8".
 - Water resistant board: ASTM C830, tapered edges, thickness 5/8".
 - Tile Backer Board: "Dens-Shield Firestop", type "X", 5/8" thick, non-structural, fiberglass-faced, silicone treated gypsum core panel or equal.
 - Cement Backer Board: Durock Cement Board, 5/8" thick, non-structural.
- Studs, Trim and Accessories
 - Steel Studs: Per ASTM C645, galvanized, gauges as noted. Track shall be one size heavier than studs.
 - Corner Beads, Control Joints, and Edge Trim: Per ASTM C1047, equal to USG #103 "Dur-A-Bead," #093 and #200-A respectively, galvanized; Unless otherwise detailed, exposed "J" trim is not acceptable.
 - Fasteners: Screws, per ASTM 1002; 1-1/4" Type "W" bugle head into wood framing, 1-1/8" Type "S" bugle head into steel framing, and 3/8" Type "S-12" pan (or low profile) head for steel to steel framing connections.
- Joint Treatment Materials
 - Joint Tape: Paper-reinforcing tape, per ASTM C475.
 - Joint Compound: Provide chemical hardening type for bedding and filling, and ready-mixed vinyl type for topping, per ASTM C475.
- Textured Finish: Medium orange-peel texture.
- Acoustical Sealant:
 - Acoustical Sealant for Exposed Joints: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834.
 - Acoustical Sealant for Concealed Joints: Manufacturer's standard nondrying, nonhardening, nonskinning, nonstaining, gunnable, synthetic-rubber sealant recommended for sealing interior concealed joints to reduce transmission of airborne sound.
- Steel Framing and General Gypsum Board Installation Requirements:
 - Steel Framing, Board Application and Finish Standards: GA216 and ASTM C754 and C840. Studding shall be 16" o.c. unless otherwise noted. Provide horizontal bracing at 4'-0" o.c. measured vertically. Frame door openings to comply with GA219.
 - Install ceiling boards in the direction and manner which will minimize the number of end-butt joints, and which will avoid end joints in the central area of each ceiling. Stagger end joints at least 4'-0".
 - Install wall/partition boards vertically to avoid end-butt joints wherever possible.
 - Locate either edge or end joints over supports. Stagger joints over different studs on opposite sides of partitions.
 - Space fasteners in gypsum board in accordance with referenced standards and manufacturer's recommendations, except as otherwise indicated.
 - Parallel Application: 12" o.c. in field; 8" o.c. along edges.
 - Perpendicular Application: 12" o.c. in field; 12" o.c. along edges.
- Installation of Drywall Trim Accessories
 - Install metal corner beads at horizontal and vertical external corners of drywall work. Secure with screws; clinching is not acceptable.
 - Install metal control joint (beaded-type) where indicated at 30'-0" maximum centers in any wall or ceiling.
- Finishing of Drywall:
 - Apply treatment at gypsum board joints (both directions), flanges of trim accessories, penetrations, fastener heads, surface defects and elsewhere as required to prepare work for decoration. Apply joint compound in 3 coats. Sand between last 2 coats and after last coat.
 - Water-resistant Gypsum Board Base for Ceramic Tile. Comply with recommendations of gypsum board manufacturer for fire rated walls.
 - Fire Taping: Fire tape all fire rated walls with tape and one coat of compound on all joints above ceilings, Mud all fasteners, to achieve a level 1 Finish.
 - Cement Board: General: Install Cement Board where indicated in the drawings. Screw straight to studs, tape joints and apply adhesive per Manufacturer's instructions.
- Application of Texture Finish
 - Prepare and prime drywall and other surfaces in strict accordance with texture finish manufacturer's instructions.
 - Mix and apply finish to drywall and other surfaces indicated to receive finish in strict accordance with manufacturer's instructions to produce a uniform texture without starved spots or other evidence of the application, and free of application patterns.
 - Remove texture droppings from door frames, windows, and adjoining work.

SECTION 09300 - CERAMIC AND QUARRY TILE

- Quality Assurance: Perform tile work in accordance with the requirements of ANSI-TCI 137.1, "Recommended Standard Specification for Ceramic Tile".
- Ceramic and Quarry Tile:
 - Ceramic Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary caps, stops, covs, returns, trimmers and other shapes as required for a complete installation.
 - Quarry Tile: Quarry tile to be Summitville Tile 6" x 6" tile double abrasive (in aisle); smooth (under equipment) with a cove base. All quarry base throughout store to be installed over tile backer board. Color: As noted on Finish Schedule on Drawings.
 - Waterproof membrane: Two-component liquid rubber latex with continuous fiberglass reinforcement equal to Latitec 30/35S. Apply as directed in the drawings.
- Comply with applicable TCA installation methods for substrates indicated. Provide tile expansion joints at all construction and/or joints in the slab.
- Mix and proportion pre-mix setting bed and grout materials in accordance with manufacturer's instructions.
 - Use Epoxy, Silicone, or polyurethane additives in grout to be located in areas subject to grease, oil, acid and water.
- Lay tile in grid pattern, parallel to walls. Lay out tile work and center tile fields in bath directions in each space at an each wall area so that no tiles less than 1/2 full tile will occur. Provide uniform joint widths.
- All tile shall be brought to true and level planes with joints well filled and shall be secured firmly in place.
- Cut and fit tile right to protrusions and/or perpendicular interruptions.
- Sound tile after setting. Replace hollow sounding units.
- Allow tile to set for a minimum of 48 hours prior to grouting.
- Prohibit traffic from floor finish or activities near wall finish for 72 hours after installation. Protect the tile work from damage with Kraft paper or other heavy non-staining covering during the construction period.
- Upon completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter. Acid solutions may be used when permitted by tile and grout manufacturer's printed instructions.

SECTION 09510 - ACOUSTICAL CEILINGS

- Acoustical Panels:
 - Dining Areas (LT-1)
 - Manufacturer: Armstrong (National Account Pricing Available)
 - Panel: #1761 HA, Fine Fissured Second Look II, Medium texture - (Class A fire rated where required by code)
 - Size: 24"x 48" x 3/4" (Scored)
 - Edges: Angled Tegula
 - Suspension System: Prelude XL, 15/16" Exposed Tee grid
 - Exposed, direct hung, per ASTM C635.
 - Concealed grid member shall be electro-galvanized.
 - Structural Classification: Intermediate duty.
 - Provide fire rated grid where indicated or scheduled, or required by local codes.
 - Finish: White
 - Kitchen (LT-2)
 - Manufacturer: Armstrong (National Account Pricing Available)
 - Panel: #670 Vinyl Faced Gypsum Panels (Class A fire rated where required by code)
 - Size: 24"x 48" x 1/2"
 - Edges: Square
 - Suspension System: Prelude XL, 15/16" Exposed Tee grid.
 - Exposed, direct hung, per ASTM C635.
 - Concealed grid member shall be electro-galvanized.
 - Structural Classification: Intermediate duty.
 - Provide fire rated grid where indicated or scheduled, or required by local codes.
 - Finish: Paint to match LT-1 above
 - Order / Pick-up (LT-3)
 - Manufacturer: Armstrong (National Account Pricing Available)
 - Panel: #670 Vinyl Faced Gypsum Panels (Class A fire rated where required by code)
 - Size: 24"x 48" x 1/2"
 - Edges: Square
 - Suspension System: Prelude XL, 15/16" Exposed Tee grid.
 - Exposed, direct hung, per ASTM C635.
 - Concealed grid member shall be electro-galvanized.
 - Structural Classification: Intermediate duty.
 - Provide fire rated grid where indicated or scheduled, or required by local codes.
 - Finish: Paint to match LT-1 above
- Miscellaneous Materials:
 - Hanger Wire: Galvanized carbon steel wire, ASTM A641, soft temper, pre-stretched Class 1 coating, sized so that stress at 3-times hanger design load (ASTM C635, Table 1, Direct Hung), will be less than yield stress of wire, but provide not less than 12 gauge.
 - Edge Moldings and Trim: Metal of types and profile indicated or, if not indicated, provide manufacturer's standard molding for edges and penetrations on ceiling which fits with type of edge detail and suspension system specified.
- Installation:
 - Install suspension systems to comply with ASTM C636. Locate hangers not less than 6" from each end and spaced 4'-0" along each carrying channel or direct-hung runner, unless otherwise indicated, leveling to tolerance of 1/8" in 12'-0". In kitchen areas, hangers shall be spaced 3'-0" along each carrying channel or direct-hung runner to obtain load capacity of 16 lbs./L.F. Provide hanger wire at each corner of each recessed fluorescent fixture.
 - Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eye screws, or other devices which are secure and appropriate for substrate, and which will not deteriorate or fail with age or elevated temperatures.
 - Space fasteners plumb and free from contact with insulation or other objects within ceiling plenum, which are not part of supporting structural or ceiling suspension system. Splay hangers only where required to miss obstructions and offset recurling horizontal force by bracing, counter-splaying or other equally effective means.
 - Install edge moldings of type indicated at perimeter of acoustical ceiling area and at locations where necessary to conceal edges of acoustical units.
 - Clean exposed surface of acoustical ceilings, including trim, edge moldings, and suspension members; comply with manufacturer's instructions for cleaning and touch-up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

SECTION 09679 - RESILIENT BASE (VINYL)

- Furnish labor, materials, services, equipment and appliances required for resilient base work indicated on the Drawings and specified herein.
- The Drawings were prepared and this Specification written on the basis of using the products of Burks, Inc., San Jose, CA. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.
- Base:
 - Type: "Cove" Base: use at hard surface and/or resilient flooring floor installations scheduled "vinyl base" on the Drawings.
 - Trim Pieces: Match base type.
 - Color: #217 Charcoal (Supplied by the Owner).
- Adhesive as recommended by base manufacturer.
- Conditions:
 - Temperature: Maintain minimum temperature of 70 degrees F for 48 hours before, during and for 48 hours after. Do not install base when temperature is below 70 F degrees.
 - Surface of Wall: Clean surfaces to receive base free from moisture, paint, oil, wax, or other films which may affect adhesion. Fill cracks, rough areas, joints, and other surface defects.
- Defer installation until work that might cause damage to base has been completed. Install "cove" base after installation of adjacent floor surface.
- Application
 - Adhesive: Apply in accord with base manufacturer's instructions; cover at least 75 percent of back of base.
 - Base and Trim Pieces: Use molded inside and outside corners and stops where base terminates, as at doors. Install with tight joints with top and bottom edges in firm contact with walls and floors.
 - Fitting: Tight-fit each joint, tops of adjacent pieces matched; each piece in contact with floor and adjacent piece or trim pieces.

PROJECT NO: 01-301
DRAWN BY: HH
CHECKED BY: JCL
ISSUE DATE:
03/11/11

REGISTERED SEAL
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ARCHITECTURAL SPECIFICATIONS

SP.3

DIVISION 9 - FINISHES (cont.)

SECTION 09680 - CARPET

- Work of this Section consists of installing all materials furnished under this Section, including all equipment, labor, services, and incidental items required to complete Work as shown on Drawings and specified in this Section.
 - Preparation of substrate to receive Carpet as required and specified in this Section.
 - Glue-Down Carpet Installation, complete with Accessories.
- Shop Drawings:
 - Show layout and seaming diagrams.
 - Indicate pile of pattern direction and locations and types of edge strips.
 - Indicate columns, doorways, enclosing walls or partitions, built-in cabinets and locations where cutouts are required in carpet.
 - Show installation details at special conditions.
- Substrate Conditions – Direct Glue Down on new or existing Concrete:
 - No condensation within 48 hours on underside of 4 ft. x 4 ft. polyethylene sheet, fully taped at perimeter to substrate.
 - Max. 9 pH when substrate wetted with potable water and pH-dion paper applied.
- Materials:
 - Carpet: Owner-furnished, Contractor installed. Manufacturer and colors as specified on the drawings.
 - Accessories:
 - Carpet Edge Guard – Marble, as detailed in drawings. Color to be determined by Owner.
 - Seaming Cement: Hot-melt seaming adhesive or similar product recommended by carpet manufacturer, for taping seams and butturing cut edges at backing to form secure seams and prevent pile loss at seams.
 - Carpet Adhesive: Water –resistant, nonstaining-type recommended by carpet manufacturer, and complying with flammability requirements for installed carpet.
 - Miscellaneous Materials: As recommended by manufacturers of carpet and other carpeting products: and selected by installer to meet Project circumstance and requirements.
- Preparation: Clear away debris and scrape up cementitious deposits form surfaces to receive carpeting; apply scaler to prevent dusting.
- Installation:
 - Comply with manufacturer's recommendations for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile.
 - At doors, center seams under doors in closed position.
 - So not place seams perpendicular to doorframe, in traffic direction through doorways.
 - Extend carpet under removable flanges and furnishings, and into alcoves and closets of each space.
 - Provide cutouts where required, and bind cut edge of carpet is exposed; anchor guards to substrate.
 - Install carpet edge guard where edge of carpet is exposed; anchor guards to substrate.
- Glue-Down Installation:
 - Fit sections of carpet into each space before application of adhesive.
 - Trim edges and butt cuts with seaming cement.
 - Apply adhesive uniformly to substrate in accordance with manufacturer's instructions.
 - Butt carpet edges tightly together to form seams without gaps.
 - Roll entire carpet area lightly to eliminate air pockets and ensure uniform bond.
 - Remove adhesive promptly from face of carpet by method, which will not damage carpet face.

SECTION 09770 - PREFINISHED WALL PANELS

- Manufacturer: Marlite, 202 Harger Street, Dover, Ohio 44622.
- Panels:
 - Wall Panels: Decorative 1/4 inch, pre-finished wall panels to be Marlite Plank, product number PLK-5446-S2V; color: "Morning Haze".
 - Slotted panels: Pre-finished 3/4 inch, slotted merchandising panels to be Marlite Displaywall, product number 2764; color: "Crystal Gray".
- Accessories:
 - All molding and trim shall be pre-finished at the factory to meet site conditions per manufacturer's standard detailing.
 - Adhesive to be C-375 Marlite Construction Adhesive as required, to meet ASTM C557.
 - Wall brackets to be utilized per manufacturer's standard details for installation intended.
 - Sealant to be MS251 Marlite Silicon Sealant as required.
- Preparation:
 - Pre-finished panels must be installed over a smooth, solid, flat sub wall assembly.
 - Do not begin installation until building is completely enclosed and interior conditions are being maintained as intended during occupancy; approximately 70 degrees F.
 - Cartons should be opened and allowed to acclimate to room conditions for at least 48 hours prior to installation.
- Installation:
 - Install in strict accordance with manufacturer's written instruction, especially in regard to fastening system and bracket spacing necessary to achieve optimum capacity.
 - Avoid contamination of panel faces with adhesives, solvents or cleaners; clean as necessary and replace if not possible to repair to original condition.
 - Protect installed products until completion of project.

SECTION 09900 - PAINTING

- Provide labor, materials, equipment and related items required to complete the exterior and interior items and surfaces throughout the project including filling, sealing, priming, and finishing.
- Mechanical and Electrical work to be painted includes the following a (but not limited to):
 - Exposed piping and/or pipe insulation, inside and outside building.
 - Mechanical equipment supports.
 - Exposed conduit, boxes, and panel fronts.
- Ensure surface temperatures and the surrounding air temperature are above 50 degrees F. before applying paint materials.
- Provide adequate continuous ventilation and sufficient heating facilities to maintain temperature above 45 degrees F. for 24 hours before, during and 48 hours after application of paint and materials.
- Provide minimum 25-foot candles of lighting on surfaces to be painted.
- Acceptable Manufacturer
 - Sherwin Williams
- Perform preparation, filling, sealing, sanding, and cleaning of surfaces scheduled to be painted in accordance with paint manufacturer's instructions.
- Remove hardware and accessories, fittings, and fastenings, electrical plates, lighting fixture and similar items. Reinstall removed items after completion of painting.
- Do not paint over dirt, dust, stains, rust, scale, oil, grease, moisture, scuffed surfaces, or other contamination or conditions detrimental to formation of a durable paint film.
- Backprime woodwork as follows:
 - Exterior painted wood and lap siding: "Latex Exterior Primer".
- Apply paint in accordance with paint manufacturers instructions and as herein specified.
- Apply each coat of paint at no less than spreading rate indicated in manufacturer's instructions.
- Sand lightly between enamel coats.
- Completely cover items/surfaces scheduled to be painted, to provide a smooth surface of uniform finish, color, appearance and paint material coverage free from cloudiness, spotting, holidays, laps, brush marks, runs, streaks, sags, ropiness and other surface imperfections.
- Tentative Paint List: Where any particular application is not mentioned in this list, Contractor shall figure on application of manufacturer's specification for application which is consistent with types and qualities listed herein. Colors are indicated on drawings.

Exterior Surfaces

- Wood Trim (Paint)**
 - 1st coat: Sherwin Williams - A100 Exterior Latex Wood Primer, B2W41 (4 mils wet, 1.4 mils dry)
 - 2nd coat: Sherwin Williams - A100 Exterior Latex Satin, A82 Series
 - 3rd coat: Sherwin Williams - A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
- Wood "Stained"**
 - 1st coat: Lauritzen & Makin, Inc. Wood stain.
 - 2nd coat: Same as first coat.
 - 3rd coat: Marine Varnish, Satin finish, or acceptable substitute, with manufacturer's application instructions included with each container.
- Ferrous Metals and Exposed Gas Lines**
 - 1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
 - 2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
 - 3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)

Note: Omit first coat on materials already prime painted but touch up bare spots with Metal primer.
- Stucco and EIFS:**
 - 1st coat: Sherwin Williams Loxon Conditioner (A24-100 Series)
 - 2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
 - 3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
- Concrete Masonry:**
 - 1st coat: Sherwin Williams Loxon XP™ Waterproofing System, A24 Series (Block Filler)
 - 2nd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
 - 3rd coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series (4 mils wet, 1.4 mils dry per coat)
- Prepainted Equipment (Rooftop Equipment, Transformers, Etc.)**
 - 1st coat: Sherwin Williams A100 Exterior Latex Satin, A82 Series
 - 2nd coat: Same as first coat.

Interior Surfaces

- Wood Doors and Trim (Paint)**
 - 1st coat: Sherwin Williams PrepRite Classic Primer, B28W101 (4 mils wet, 1.6 mils dry)
 - 2nd coat: Sherwin Williams ProMar 200 Latex Semi-Gloss B31W200 Series
 - 3rd coat: Sherwin Williams ProMar 200 Latex Semi-Gloss B31W200 Series (4 mils wet, 1.5 mils dry per coat)
- Wood Trim "Stained"**
 - 1st coat: Lauritzen & Makin, Inc. (617/921-0218) wood stain.
 - 2nd coat: Sherwin Williams Polyurethane varnish, A67 Series, Satin.
- Wood Doors "Stained"**

Same as for Exterior Wood "Stained"
- Woodwork Backpriming**

One coat: Sherwin Williams ProMar Classic Interior Latex Primer, B28W100.
- Gypsum Wallboard**
 - 1st coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
 - 2nd coat: Sherwin Williams ProMar 400 Latex Semi-gloss Wall Paint, B31-400
- Ferrous Metal and Gas Lines**

First: Remove all dirt, grease, oil, and scaly material.

 - 1st coat: DTM Acrylic Primer/Finish, B66W1 (6 mils wet, 3 mils dry)
 - 2nd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series
 - 3rd coat: Sherwin Williams ProMar 200 Latex Eg-Shel, B20W200 Series (4 mils wet, 1.5 mils dry per coat)

DIVISION 10 - SPECIALTIES

SECTION 10150 - TOILET COMPARTMENTS

- All compartments and screens are furnished and installed by the Contractor. Manufacturer equal to Global Steel Products; Floor mounted / Overhead braced partitions.
- Steel Sheets for Stainless Steel Finish: ASTM A 591 (ASTMA 591M), Class C, galvanized-bonderized, of following minimum thicknesses:
 - Plasters (overhead-braced): 1 1/4" thick panels with (22 ga.) steel sheets.
 - Panels and Screens: 1" thick panels with (22 ga.) steel sheets.
 - Doors: 1" thick panels with (22 ga.) steel sheets.
 - Core: Honeycomb core.
 - Reinforcement: Provide plywood cores at grab bar locations.
 - Finish: Brushed Stainless Steel finish.
 - Hardware: Manufacturer's standard hardware; chromium-plated diecast Zamac.
- Install partitions secure, plumb, level and square
- Mount panels, doors and urinal screens with bottom edges 12 inches above the floor.
- Mount headrails for bracing 12 inches above tops of doors and panels.
- Attach panel brackets securely to walls using appropriate anchorage devices.
- Attach panel and plaster to brackets with through bolts and nuts.
- Anchor urinal screens to walls to support 150 pound loads required in RR-P-1352.
- Conceal floor fastenings with pilaster shoes.
- Equip each door with hinges, latch, keeper and stop, door pull and coat hook with bumper.
- Adjust and align hardware to uniform clearance at vertical edges of doors not exceeding 3/16 inch.
- Adjust hinges to locate doors in partial open position when unlatched.
 - Set Accessible Compartment doors to return within 5 degrees of closed position.
 - Set all other doors to return within 30 degrees of closed position.

SECTION 10265 - CORNER GUARDS

- Coordinate the work with wall or partition Sections for installation of concealed blocking or anchor devices.
- Deliver, store and handle products in accordance with Section 01600
- Corner Guards
 - At all exposed corners in Kitchen area.
 - Design: Surface applied with adhesive.
 - Material: Stainless Steel, 2 inch x 2 inch x full height.
 - Thickness: 16 gauge.
 - Finish: No. 4 Satin.
 - Taper edge.
 - At all exposed corners throughout building except Kitchen area.
 - Design: Surface applied with adhesive.
 - Material: Extruded Plastic, 1 1/4 inch x 1 1/4 inch x 4 feet.
 - Finish: Glossy White.
 - Taper edge.
- Verify that substrate finishes are complete and attachment devices in hollow walls are accurately located.
- Installation
 - Install using skilled workmen.
 - Locate devices as shown on the Drawings.
 - Stop corner guards at heights indicated from top of base to bottom of ceiling, unless noted otherwise.

SECTION 10442 - INTERIOR DOOR SIGNS

- Design and Fabrication
 - All patterns for fabrication, regardless of production technique, method, or process specified, shall be approved by the Architect prior to production in order to ensure conformity to design with regard to letter form and height, wording, spelling, capitalization, punctuation, letter spacing, leading and layout or composition.
- The drawings were prepared and this specification written on the basis of using the products of Kroy Sign Systems, Scottsdale, Arizona. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.
- Regulatory signage series opaque acrylic, matte finish plaques, with front surface hot stamp graphics, in low profile frame. Configuration shown on drawings to conform with Americans With Disabilities Act regulatory requirements.
- Provide one sign (unit) for each restroom door opening for public facilities.
- Installation shall be started at the time established by the General Contractor. However, no sign work shall be permitted in the building before the building is completely enclosed and all painting and work of other trades is finished.
- Install signs in accord with approved shop drawings. Install true to line, plumb, level, square, in proper planes with other work and free from objectionable defects. Anchor to adequately resist all normally subjected stresses.

SECTION 10523 - PORTABLE FIRE EXTINGUISHERS

- Section Includes Fire extinguishers and Mounting brackets
- Provide new portable fire extinguishers which are UL listed and bear UL "Listing Mark" for type, rating, and classification of extinguisher indicated.
- Dining Area Fire Extinguishers:
 - Provide where located on drawings, equal to J.L. Industries "Cosmic A" Series Model 10E, Class A, B, and C, cabinet-mounted 10 lb. capacity with nozzle. Approved equal fire extinguisher as manufactured by Larsen's Manufacturing Co., or Muckle Manufacturing Co. shall also be acceptable for use on this project.
 - Semi-recessed cabinet with rolled edge trim, Ambassador Series, fabricated of at least 18 gauge steel, box size 10 1/2 x 24 x 6, factory prime coated for field painting. Cabinet to have Vertical Duo-panel with clear acrylic glazing and Saf-T-Lok.
- Kitchen Area Fire Extinguishers:
 - Provide a minimum of two, equal to J.L. Industries "Galaxy Series - Model 6" wall-mounted, dry chemical type 40 BC UL rated, 6 lb. capacity fire extinguishers with pressure gauge.
 - Brackets: Equal to J.L. Industries "Mark Brackets, Model MB808" for Model 6 fire extinguisher.
- Anchors: Non-corrosive types as required by wall conditions.
- Mount in strict conformance with manufacturer's instructions; in locations noted on drawings and locations directed by local fire marshal.

SECTION 10800 - TOILET ACCESSORIES

- All toilet accessories are furnished and installed by the Contractor. Coordinate rough-in, openings and wood blocking.
- Install fixtures, accessories and items in accordance with manufacturer's instructions, and where affected, at heights or locations for the handicapped as indicated or specified herein.
- Install true, plumb and level, securely and rigidly anchored to substrate.
- See Typical Restroom Accessories Schedule for Manufacturer and item number information.
- Baby Changing Stations (Koala Bear Kare) to be furnished and installed by the Contractor. This is a non-substitute item to be ordered from:

Koala Kare Products
6982 South Quentin Street
Centennial, CO 80112
Phone: 1-888-733-3456

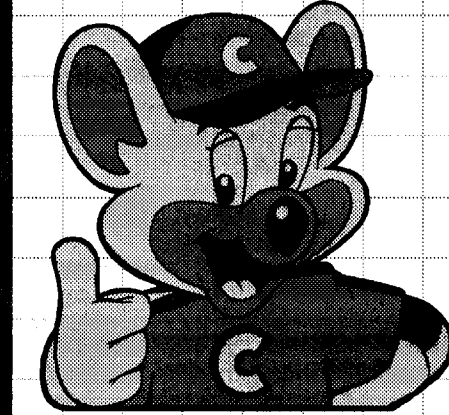
DIVISION 11 - EQUIPMENT

SECTION 11400 - FOOD SERVICE EQUIPMENT (INSTALLATION)

- Section includes: Installation of Owner provided food service equipment. This equipment shall be furnished, assembled, and set in place under separate contract, with final utility connection by General Contractor.
- Related Sections
 - Mechanical and electrical services and final connections to equipment.
- Owner will provide equipment manufacturer's installation instructions for Contractor's use.
- Owner will provide equipment manufacturer's operation and maintenance data for Contractor's use.
- Coordinate size of access and route to place of installation.
- Owner Provided (By Owner):**
 - Equipment scheduled on the drawings.
 - Mechanical refrigeration systems, including compressor units, condensers, evaporator coils, and control valves.
 - Motor starters.
 - Walk-in refrigerator/freezer thermostats.
 - Stainless steel trim strips, supports and connections, attachment devices, and accessories.
- Contractor Provided: Refrigerant System Installation.**
 - Refrigerant Lines:** Type "L" hard copper tubing.
 - Fittings:** Wrought copper or brass designed for use with high temperature solder.
 - Piping Joints:** Made with silver solder (Sil-Fos).
 - Piping:** Properly suspended from an anchor to the structure with adjustable hangers 6' o.c. maximum.
 - Suction Lines:** Size to have maximum pressure drop of two pounds in medium temperature systems, one pound in low temperature system.
 - Liquid Lines:** Sized to give maximum pressure to prevent trapping of oil. Rigid insulation on all suction lines to be Armalex insulation by Armstrong - 1" thick at medium temp., 1-1/2" thick at low temp. Refrigerant lines in PVC or EMT conduit to be sealed at both ends with Dow Corning 3-6548 silicone RTV foam.
 - Evacuation and Charging:** After completion of the pressure test, the system shall be evacuated using an approved auxiliary vacuum pump. Connections for evacuations to be in accordance with manufacturer's recommendations.
- Delivery, Handling and Storage
 - Delivery:** Upon receiving equipment, check crates/cartons identification labels with receiving P.O.; assure correct item has been received.
 - Handling:** Uncrate equipment in organized manner. Take care not to misplace loose parts, accessories, assembly and operating instructions, and warranty cards. Keep utility hookup notes and tags on equipment until after connections are made. Assemble in workmanship manner in accord with manufacturer's directions, taking care to make sure fasteners are tight and components are aligned and square.
 - Storage:** Store equipment clear of floor in manner to prevent warping, twisting, or sagging.
- Installation
 - Install items in accord with manufacturer's instructions and fabricator's shop drawings. Install in accord with local governing Health, Building, and Safety, and Fire Protection Codes and Regulations and NEMA, UL, AIA, ASME and NFPA.
 - Electrolysis:** Insulate to prevent electrolysis between dissimilar metals. Provide sealant to achieve clean joint without crevices.
 - Equipment:**
 - General:** Set in place and position per kitchen equipment plan; ready for utility hook up. After utility hookups are made, level and secure dishables to slope toward dishwasher. Completely close and seal gaps, joints and seams between fixtures/equipment and walls, ceilings and floors with stainless steel trim strips and/or clear silicone sealant. Do not use sealant in joints or seams over 3/16 inch wide.
 - Refrigerant Piping:** Install copper tubing and fittings. Cut with pipe cutters and reshape with sizing tool. Expose piping to view as required by American Standard Safety Code for Mechanical Refrigeration. For exposed areas or accessible turned ceiling spaces, use hard copper tubing. Run exposed tubing in such manner as to prevent damage from activities in areas; otherwise run tubing in pipe or conduit.
 - Suction Lines:** Size to give max pressure drop from evaporator to machine of 2 lb. For high temp system and 1 lb. For freezer system, allowing gas velocities of not less than 750 rpm in horizontal runs and 1500 rpm in vertical risers. Size liquid lines to give max pressure drop of 3 lbs. from receiver to evaporator.
 - Taking Runs:** Grade to prevent trapping of oil.
 - Leak:** Secure suction and liquid lines for each system together, except when run through conduit; 24 inch intervals with black plastic electrical tape.
 - Insulation:** Insulate refrigerant suction lines outside of refrigerated compartments back to compressors.
 - Hangers and Supports:** Provide adjustable hangers, anchors or straps required for proper support of piping not run in conduit. Space hangers not to exceed 10 feet o.c. and closer where required for proper support of small piping. Provide insulated refrigerant piping with approved type sleeves at hanger points.
 - Walk-In Cooler/Freezer Boxes:** Transit level floor screens prior to wall and ceiling panel erection. Seal wall and/or ceiling penetrations for electrical conduits and refrigeration lines, etc., to prevent frost and condensate build-up. Electrical conduits; on exterior of box.
 - Oil Separators:** Provide low temperature operations of system, return line connected to top of crankcase above oil level. Provide exposed oil return lines with shut-off valves of packless stem type.
 - Evaporator Coils:** Support by hangers utilizing fish plates on top of walk-in unit a full 4 inches clear from underside of ceiling panels.
 - Remote Wine Systems:** Installed by local manufacturer's representative installer.

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WWW.FJG.COM



CHUCKECHEESE'S

RICHMOND PLAZA SHOPPING CENTER
3485 WRIGHTSBORO ROAD
AUGUSTA, GA 30909

STORE# 939

NAME

DESCRIPTION

REV

DATE

PROJECT NO: 101301

DRAWN BY: HH

CHECKED BY: JCL

ISSUE DATE:

03/11/11

SP.4

ARCHITECTURAL SPECIFICATIONS

1	CONNECT NEW GAS PIPING TO EXISTING AT GAS METER.	8	EXISTING GAS ON ROOF TO REMAIN.
2	NEW GAS PIPING ON ROOF. PROVIDE PIPE SUPPORTS; SEE SHT P3.0. PAINT EXPOSED PIPING ON ROOF WITH ZINC-RICH GALVANIZING PAINT FOR CORROSION PROTECTION.	9	EXISTING GAS THROUGH ROOF TO REMAIN
3	LOW PRESSURE GAS CONNECTION TO NEW ROOFTOP UNIT; SEE P3.0	10	REPLACE EXISTING GAS METER/REGULATOR WITH ONE CAPABLE OF HANDLING NEW CONNECTED LOAD: 2755 CFH @ 7" WC. COORDINATE WITH GAS UTILITY.
4	LENNOX TO PROVIDE HVAC UNIT WITH SMOKE DETECTOR INSTALLED IN SUPPLY AIR SECTION. GENERAL CONTRACTOR IS TO MAKE FINAL CONNECTION. UPON ACTIVATION SMOKE DETECTOR IS TO SHUT DOWN RTU.	11	REMOVE EXISTING GAS PIPING BACK TO METER; OWNER TO CONTACT GAS UTILITY TO TERMINATE SERVICE.
5	NEMA 3R DISCONNECT SWITCH AND WP, GFCI SHALL BE PROVIDED WITH THE RTU.	12	EXISTING FLUE SHOWN FOR REFERENCE. REVISE DUCT BELOW ROOF FOR NEW CONSTRUCTION.
6	UV-ARRESTED PVC CONDENSATE DRAIN CONNECTION AT RTU; EXTEND TO NEAREST ROOF SCUPPER. INSTALL PIPE SUPPORTS; SEE P3.0.	13	EXISTING COMBUSTION AIR DUCT SHOWN FOR REFERENCE. REVISE DUCT BELOW ROOF FOR NEW CONSTRUCTION.
7	APPROXIMATE LOCATION OF EXISTING EQUIPMENT SHOWN FOR REFERENCE ONLY.	14	PROVIDE NEW PIPE SUPPORTS FOR NEW GAS PIPING INSTALL AS PER 2006 IFC WITH GEORGIA AMENDMENTS. IF POSSIBLE MOUNT ON EXISTING PIPE SUPPORTS AS REQUIRED.
		15	ADJACENT TENANT'S ROOFTOP UNIT SHOWN FOR PREFERENCE.



MEP1.0

SECTION 11400 - FOOD SERVICE EQUIPMENT INSTALLATION

- SECTION INCLUDES: INSTALLATION OF OWNER PROVIDED FOOD SERVICE EQUIPMENT. THIS EQUIPMENT SHALL BE FURNISHED, ASSEMBLED, AND SET IN PLACE UNDER SEPARATE CONTRACT, WITH FINAL UTILITY CONNECTION BY GENERAL CONTRACTOR.
- RELATED SECTIONS
 - MECHANICAL AND ELECTRICAL SERVICES AND FINAL CONNECTIONS TO EQUIPMENT.
- OWNER WILL PROVIDE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR CONTRACTOR'S USE.
- OWNER WILL PROVIDE EQUIPMENT MANUFACTURER'S OPERATION AND MAINTENANCE DATA FOR CONTRACTOR'S USE.
- COORDINATE SIZE OF ACCESS AND ROUTE TO PLACE OF INSTALLATION.
- OWNER PROVIDED (BY OWNER)

- EQUIPMENT SCHEDULED ON THE DRAWINGS.
- MECHANICAL REFRIGERATION SYSTEMS, INCLUDING COMPRESSOR UNITS, CONDENSERS, EVAPORATOR COILS, AND CONTROL VALVES.
- MOTOR STARTERS.
- WALK-IN REFRIGERATOR/FREEZER THERMOSTATS.
- STAINLESS STEEL TRIM STRIPS, SUPPORTS AND CONNECTIONS, ATTACHMENT DEVICES, AND ACCESSORIES.

7. CONTRACTOR PROVIDED: REFRIGERANT SYSTEM INSTALLATION

- REFRIGERANT LINES: TYPE "L" HARD COPPER TUBING.
- FITTINGS: WROUGHT COPPER OR BRASS DESIGNED FOR USE WITH HIGH TEMPERATURE SOLDER.
- PIPING JOINTS: MADE WITH SILVER SOLDER (Sn-Pb).
- PIPING: PROPERLY SUSPENDED FROM AN ANCHOR TO THE STRUCTURE WITH ADJUSTABLE HANGERS @ 6" C. MAXIMUM.
- SUCTION LINES: SIZE TO HAVE MAXIMUM PRESSURE DROP OF TWO POUNDS IN MEDIUM TEMPERATURE SYSTEMS, ONE POUND IN LOW TEMPERATURE SYSTEM.
- LIQUID LINES: SIZED TO GIVE MAXIMUM PRESSURE TO PREVENT TRAPPING OF OIL. RIGID INSULATION ON ALL SUCION LINES TO BE ARMAFLEX INSULATION BY ARMSTRONG - 1" THICK AT MEDIUM TEMP., 1 1/2" THICK AT LOW TEMP. REFRIGERANT LINES IN PVC OR EMT CONDUIT TO BE SEALED AT BOTH ENDS WITH DOW CORNINGS 34548 SILICONE RTV FOAM.
- EVACUATION AND CHARGING: AFTER COMPLETION OF THE PRESSURE TEST, THE SYSTEM SHALL BE EVACUATED USING AN APPROVED AUXILIARY VACUUM PUMP. CONNECTIONS FOR EVACUATIONS TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

8. DELIVERY, HANDLING AND STORAGE

- DELIVERY: UPON RECEIVING EQUIPMENT, CHECK CRATES/CARTONS IDENTIFICATION LABELS WITH RECEIVING P.O., ASSURE CORRECT ITEM HAS BEEN RECEIVED.
- HANDLING: UNCRATE EQUIPMENT IN ORGANIZED MANNER. TAKE CARE NOT TO MISPLACE LOOSE PARTS, ACCESSORIES, ASSEMBLY AND OPERATING INSTRUCTIONS, AND WARRANTY CARDS. KEEP UTILITY HOOKUP NOTES AND TAGS ON EQUIPMENT UNTIL AFTER CONNECTIONS ARE MADE. ASSEMBLE IN WORKSMANSHIP MANNER IN ACCORD WITH MANUFACTURER'S DIRECTIONS, TAKING CARE TO MAKE SURE FASTENERS ARE TIGHT AND COMPONENTS ARE ALIGNED AND SQUARE.
- STORAGE: STORE EQUIPMENT CLEAR OF FLOOR IN MANNER TO PREVENT WARPING, TWISTING OR SAGGING.

9. INSTALLATION

- INSTALL ITEMS IN ACCORD WITH MANUFACTURER'S INSTRUCTIONS AND FABRICATOR'S SHOP DRAWINGS. INSTALL IN ACCORD WITH LOCAL GOVERNING HEALTH, BUILDING, AND SAFETY AND FIRE PROTECTION CODES AND REGULATIONS AND NEMA, UL, AGA, ASME, AND NFPA.
- ELECTROLYSIS: INSULATE TO PREVENT ELECTROLYSIS BETWEEN DISSIMILAR METALS. PROVIDE SEALANT TO ACHIEVE CLEAN JOINT WITHOUT CREVICES.

DIVISION 15 MECHANICAL
SECTION 15100 GENERAL MECHANICAL REQUIREMENTS

1. SCOPE OF WORK

- THE WORK TO BE ACCOMPLISHED UNDER THIS SECTION OF SPECIFICATIONS INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, SUPERVISION AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF AIR CONDITIONING, HEATING, VENTILATING, PLUMBING, FIRE PROTECTION TOGETHER WITH ALL THE NECESSARY AUXILIARIES AND APPURTENANCES. GENERALLY THE WORK SHALL CONSIST OF, BUT IS NOT LIMITED TO, ITEMS LISTED IN THE FOLLOWING PARAGRAPHS.
- AIR CONDITIONING AND HEATING, HOODS AND EXHAUST FANS BY OWNER, INSTALLED BY CONTRACTOR. FACTORY BUILT AIRCONDITIONING AND HEATING UNITS OF THE SINGLE ZONE ROOFTOP PACKAGE, FILTERS, FANS, MOTORS, DRIVES, HVAC UNITS, HOODS, ETC.
- AIR DISTRIBUTION SYSTEM: SHEET METAL DUCTWORK, VOLUME DAMPERS, SPLITTER DAMPERS, TURNING VANES, AIR CONTROL DEVICES, GRILLES, REGISTERS, DIFFUSER GRILLES, FLEXIBLE DUCT, INSTALL PER SMACNA STANDARDS. FIBERGLASS DUCT BOARD IS NOT AN ACCEPTABLE ALTERNATIVE.
- PLUMBING: SOIL, WASTE AND VENT PIPING, DOMESTIC HOT AND COLD WATER DISTRIBUTION, HOT WATER GENERATORS, FIXTURES, GREASE TRAPS, VENTS, CONDENSATE LINES OF HVAC AND MISCELLANEOUS EQUIPMENT, UNDERFLOOR OR OVER HEAD SODA, REFRIGERANT LINE CONDUIT AND/OR ROOF LEADERS.
- MISCELLANEOUS SUPPLY AND EXHAUST FANS, MAKE-UP AIR UNITS, TEMPERATURE CONTROLS, THERMAL INSULATION, APPARATUS FOUNDATIONS AND SUPPORTS, PIPE HANGERS AND SUPPORTS AND ALL NECESSARY TOOLS, ACCESSORIES AND APPLIANCES AS REQUIRED TO MAKE ALL SYSTEMS COMPLETE AND OPERATIVE.

2. PRODUCTS AND EXECUTION:

- ELECTRICAL PROVISIONS FOR MECHANICAL WORK: EXCEPT FOR SUCH ITEMS AS ARE NORMALLY WIRED UP AT THEIR POINT OF MANUFACTURE AND SO DELIVERED, AND UNLESS SPECIFICALLY NOTED TO THE CONTRARY HEREIN, THE ELECTRICAL SUBCONTRACTOR WILL DO ALL ELECTRIC WIRING OF EVERY CHARACTER FOR POWER SUPPLY, LINE VOLTAGE CONDUIT AND LOW VOLTAGE CONTROL WIRING AND CONDUIT. THE ELECTRICAL SUBCONTRACTOR SHALL ERECT ALL MOTORS IN PLACE READY FOR CONNECTION. EXCEPT FOR SUCH ITEMS AS ARE NORMALLY SUPPLIED WITH STARTERS INSTALLED (IMAC UNITS, ETC) AT THEIR POINT OF MANUFACTURE, ALL OTHER STARTERS NOT FURNISHED WITH EQUIPMENT TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE ELECTRICAL SUBCONTRACTOR WILL MOUNT ALL SUCH STARTERS, AS DIRECTED, FURNISHING SUPPORTING STRUCTURES WHERE NECESSARY. THE OWNER AND OTHER CONTRACTORS SHALL FURNISH WITH EACH ITEM REQUIRING ELECTRICAL CONNECTIONS, THE NECESSARY INSTRUCTIONS AND WIRING DIAGRAMS TO THE ELECTRICAL SUBCONTRACTOR. THE ELECTRICAL SUBCONTRACTOR SHALL REFER TO THE SPECIFICATIONS TO DETERMINE THE SCOPE OF THE WORK.
- CHASES AND OPENINGS: VARIOUS DIVISIONS, HOWEVER, THE LOCATIONS OF ALL INSERTS AND OPENINGS SHALL BE DETERMINED AND COORDINATED WITH OTHER DIVISIONS IN AMPLE TIME TO AVOID CUTTING NEW CONSTRUCTION.
- ROOF FLASHING OF DUCTS AND CURBS: DIVISION 7, HOWEVER, PLUMBING VENT FLASHING AND COUNTER FLASHING SHALL BE PROVIDED UNDER THIS DIVISION AND PER MANUFACTURER'S RECOMMENDATIONS.
- OPENINGS IN ROOF DECK: WHERE PIPING, DUCTS, VENTS OR ANY OTHER MECHANICAL APPARATUS PENETRATES ROOF DECK AND OPENING IS NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS, OBTAIN ARCHITECT'S APPROVAL OF LOCATION AND SIZE. HAVE LANDLORD APPROVED ROOF DECK INSTALLER DO CUTTING AND PAY INSTALLER COST OF CUTTING AND FLASHING OPENING.

3. PERMITS, FEES AND CODE REGULATIONS:

- PERMITS: OBTAIN ALL PERMITS REQUIRED TO DO THIS WORK AND PAY ANY FEES REQUIRED TO SUCH PERMITS.
- REGULATIONS: CONFORM TO ALL STRATE AND LOCAL ORDINANCES AND RULINGS APPLICABLE TO THIS WORK AND IN EFFECT AT THE TIME THE WORK IS PERFORMED. APPROVAL OF VARIOUS INSURING AND INSPECTION AUTHORITIES SHALL BE OBTAINED. WHEN REQUESTED, COMPETENT EVIDENCE OF COMPLIANCE WITH APPLICABLE CODES, SHALL BE FURNISHED.
- CONFLICTS: IF A CONFLICT EXISTS BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS AND ANY ABOVE MENTIONED AUTHORITY, THE CONTRACTOR SHALL ADVISE THE ARCHITECT/ENGINEER IN WRITING FIVE (5) DAYS PRIOR TO PRESENTING PROPOSAL OR INCLUDE ALL COST REQUIRED TO MEET REGULATIONS.

4. STRUCTURAL AND SPACE CONCTION:

- THE SPECIFICATIONS AND ACCOMPANYING DRAWINGS ARE INTENDED TO ENCOMPASS A SYSTEM THAT WILL NOT INTERFERE WITH THE STRUCTURAL, ELECTRICAL AND ARCHITECTURAL DESIGN OF THE BUILDING, AND WHICH WILL FIT INTO THE SEVERAL AVAILABLE SPACES AS IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ANY TRADES, TO CONFORM TO EQUIPMENT AND OBSTRUCTIONS OF STRUCTURAL CONDITIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS AND INTERFERENCES WITH ALL OTHER TRADES, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.
- DO NOT RUN PIPING OR DUCTWORK, OR LOCATE EQUIPMENT (WITH RESPECT TO SWITCHBOARDS, PANELBOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS) WITHIN 36" OF THE FACE OF EQUIPMENT, OVER EQUIPMENT OR WITHIN 36" HORIZONTALLY OF SAME SPACE.

5. DRAWINGS:

- THE DRAWINGS AS PREPARED ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. CHANGES FROM THE DRAWINGS NECESSARY TO FIT THE WORK OF VARIOUS TRADES, TO CONFORM TO EQUIPMENT, ACTUALLY BEING INSTALLED, OR TO CONFORM TO THE RULES OF AUTHORITIES HAVING JURISDICTION SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.

6. AS-BUILT DRAWINGS:

- PROVIDE AND KEEP UP-TO-DATE, A COMPLETE RECORD SET OF PRINTS WHICH SHALL BE CORRECTED DAILY WITH DATED NOTATIONS, AND INDIVIDUAL WHO APPROVED CHANGES, AND SHALL SHOW ANY CHANGE FROM THE ORIGINAL CONTRACT DRAWINGS. THIS SET OF PRINTS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET.

7. PROTECTION OF MATERIALS:

- TAKE SUCH PRECAUTIONS AS ARE NECESSARY TO PROTECT ALL EQUIPMENT AND MATERIALS FROM DAMAGE.

8. WORKMANSHIP:

- LABOR SHALL BE PERFORMED IN A NEAT WORKMANLIKE MANNER BY MECHANICS SKILLED IN THEIR PARTICULAR TRADES.

9. MATERIALS AND EQUIPMENT:

- ALL MATERIALS SHALL BE NEW AND OF THE BEST QUALITY, WHERE MANUFACTURER'S NAMES AND MODEL NUMBERS ARE MENTIONED IN THE SPECIFICATIONS, AND/OR DRAWINGS, IT IS INTENDED TO SET A STANDARD OF QUALITY AND SHALL NOT BE CONSTRUED TO LIMIT COMPETITION UNLESS SPECIFICALLY STATED IN DRAWINGS OR TO DISCRIMINATE AGAINST "EQUAL" PRODUCTS OF OTHER MANUFACTURER, THE WORDS "OR APPROVED EQUAL" ARE TO FOLLOW EACH MATERIAL SPECIFICATION WHERE A SUBSTITUTION WILL BE CONSIDERED, ANY PROPOSED SUBSTITUTION MUST BE SUBMITTED FOR COMPARISON AND IT IS UNDERSTOOD THAT THE ENGINEER SHALL BE THE SOLE JUDGE IN THE MATTER. CONTRACTOR MUST INCLUDE COST OF ALL STRUCTURAL CHANGES TO FACILITATE ALTERATIONS IN BID COST.

B. GUARANTEE: FURNISH WRITTEN CERTIFIED GUARANTEE, IN ACCEPTABLE FORM, TO THE OWNER, AGAINST DEFECTIVE WORKMANSHIP, MATERIALS, AND OPERATING EQUIPMENT, FURTHER, GUARANTEE TO REBALANCE AND ADJUST ENTIRE SYSTEM OR ANY PART THEREOF, AS REQUIRED FOR PERFECT OPERATION FOR A PERIOD OF AT LEAST ONE (1) YEAR AFTER ACCEPTANCE, INCLUDING COST OF REFRIGERANT CHARGE, REPAIR, REPLACE AND MAKE SATISFACTORILY OPERATING MATERIALS AND ALL DEFECTIVE ITEMS AND, WORK HOLDING OWNER FREE FROM ANY COST AND LIABILITY IN CONNECTION THEREWITH FOR THE TERM OF GUARANTEE. THE MANUFACTURER SHALL PROVIDE A WARRANTY ON HIS UNIT COMPRESSORS FOR A PERIOD OF FIVE (5) YEARS AND HEAT EXCHANGER FOR A PERIOD OF 10 YEARS.

5. VIBRATIONS AND NOISE:

- EACH OF THE VARIOUS PIECES OF EQUIPMENT SHALL OPERATE WITHOUT OBJECTIONABLE VIBRATION OR NOISE. ALL ROTATING EQUIPMENT SHALL BE IN STATIC AND DYNAMIC BALANCE AND SHALL BE MOUNTED, SUPPORTED AND FASTENED SO THAT NO EQUIPMENT VIBRATION WILL BE TRANSMITTED TO THE BUILDING. THE SPECIFIC SIZE OF VIBRATION ISOLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL. IF, IN THE OPINION OF THE ARCHITECT, OBJECTIONABLE VIBRATION OR TRANSMISSION THEREOF TO THE BUILDING OCCURS, THE CONTRACTOR SHALL EXECUTE REMEDIAL MEASURES AS MAY BE NECESSARY TO ELIMINATE SUCH UNSATISFACTORY OPERATING CONDITIONS AT THE CONTRACTOR'S EXPENSE.

11. OPERATING INSTRUCTIONS:

- BROCHURES: WRITTEN INSTRUCTIONS, ASSEMBLED AND BOUND IN BROCHURES, SHALL BE FURNISHED IN TRIPlicate FOR OPERATING AND MAINTAINING ALL EQUIPMENT FURNISHED UNDER THIS DIVISION OF THE SPECIFICATIONS. INSTRUCTIONS SHALL INCLUDE ALL NORMAL ADJUSTMENTS, A LIST OF USE, PRECAUTIONS POINTS WITH THE TYPE AND FREQUENCY OF LUBRICATION REQUIRED, PARTS LISTS SHALL BE FURNISHED.
- DEMONSTRATION: UPON COMPLETION AND ACCEPTANCE OF WORK BY THE OWNER, THE CONTRACTOR SHALL BE REQUIRED TO INSTRUCT THE OPERATING PERSONNEL IN THE OPERATION OF THE ENTIRE INSTALLATION. TWO SESSIONS SHALL BE HELD, ONE FOR SUMMER OPERATION AND ONE FOR WINTER OPERATION, BOTH IN THE RESPECTIVE SEASONS.
- IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF, AND AT NO ADDITIONAL COST TO THE OWNER.
- EXAMINATION OF THE SITE: A. ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS, INCLUDING LOCAL RULES AND REGULATIONS, THEREON AND/OR THEREIN. ALL PROPOSALS SHALL HAVE TAKEN INTO CONSIDERATION ALL CONDITIONS THAT MAY AFFECT THE WORK UNDER THIS CONTRACT. LACK OF THIS INFORMATION WILL NOT BE CONSIDERED AS JUSTIFICATION FOR EXTRA COST OR ALLOWANCES TO THE CONTRACT PRICE.

12. FINAL INSPECTIONS:

- SCHEDULE: UPON COMPLETION OF CONTRACT, THERE SHALL BE A FINAL INSPECTION OF THE COMPLETED INSTALLATION. PRIOR TO THIS INSPECTION, ALL WORK UNDER THIS DIVISION SHALL HAVE BEEN COMPLETED, TESTED, BALANCED, AND ADJUSTED AND IN FINAL OPERATING CONDITION.
- PERSONNEL: A QUALIFIED PERSON REPRESENTING THE CONTRACTOR MUST BE PRESENT AT THIS FINAL INSPECTION TO DEMONSTRATE THE SYSTEM AND PROVE THE PERFORMANCE OF THE EQUIPMENT.

13. CUTTING AND PATCHING:

- WHERE CUTTING AND PATCHING BECOMES NECESSARY TO PERMIT THE INSTALLATION OF ANY WORK UNDER THIS CONTRACT, OR SHOULD IT BECOME NECESSARY TO REPAIR ANY DEFECTS THAT MAY APPEAR IN PATCHING UP TO THE EXPIRATION OF THE GUARANTEE, SUCH CUTTING SHALL BE DONE UNDER THE SUPERVISION OF THE OWNER BY THE TRADE OF SUBCONTRACTOR WHOSE WORK IS TO BE DISTURBED. AFTER THE NECESSARY WORK HAS BEEN COMPLETED, THE TRADE OF SUBCONTRACTOR WHOSE WORK HAS BEEN DISTURBED SHALL REPAIR DAMAGE. THE COST OF ALL CUTTING AND PATCHING SHALL BE PAID BY THE TRADE OF SUBCONTRACTOR REQUIRING IT TO BE DONE.

14. EXCAVATIONS AND BACKFILLING:

- PROVIDE NECESSARY EXCAVATING AND BACKFILLING FOR THE INSTALLATION OF WORK SPECIFIED IN THIS DIVISION. TRENCHES FOR UNDERGROUND PIPING AND CONDUITS SHALL BE EXCAVATED TO REQUIRED DEPTHS WITH BELL HOLES PROVIDED AS NECESSARY TO ENSURE UNIFORM BEARING. CARE SHOULD BE TAKEN TO EXCAVATE BELOW DEPTH, AND ANY EXCAVATION BELOW DEPTH SHALL BE REFILLED WITH SAND OR GRAVEL FIRMLY COMPACTED. WHERE ROCK OR HARD OBJECTS ARE ENCOUNTERED, THEY SHALL BE EXCAVATED TO A GRADE SIX INCHES (6") BELOW SPECIFIED. AFTER THE PIPE HAS BEEN INSTALLED, TESTED AND APPROVED, THE TRENCHES SHALL BE BACKFILLED TO GRADE WITH APPROVED MATERIAL, WELL-TAMPED OR PADDED COMPACTLY IN PLACE. DO NOT EXCAVATE BELOW DEPTH. THE INSTALLATION OF UNDERGROUND PIPING HAS BEEN SPECIFIED BY THE OWNER OR BY THE LOCAL INSPECTOR OF THE MUNICIPALITY IN WHICH THE WORK IS BEING PERFORMED. DO NOT PERFORM BACKFILLING OPERATIONS EXCEPT IN THE PRESENCE OF THE OWNER OR INSPECTOR. ALL PIPING OUTSIDE WASTE PIPING: SHALL BE TYPE "L" COPPER WITH 85% SWEAT SOLDER AND WROUGHT COPPER FITTINGS (SEE PLUMBING PLAN FOR REQUIREMENTS) UNLESS OTHERWISE INDICATED.

15. GUARANTEE:

- THE GUARANTEE PROVISION OF THIS SPECIFICATION REQUIRES PROMPT REPLACEMENT OF ALL DEFECTIVE WORKMANSHIP AND MATERIALS OCCURRING WITHIN ONE YEAR OF JOB ACCEPTANCE. THIS INCLUDES ALL WORK REQUIRED TO REMOVE AND REPLACE THE DEFECTIVE ITEM AND TO MAKE ALL NECESSARY ADJUSTMENTS TO RESTORE THE ENTIRE INSTALLATION TO ITS ORIGINAL SPECIFIED OPERATING CONDITION AND FINISH AT THE TIME OF ACCEPTANCE.

16. FIRE STOPPING

- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR FIRESTOPPING AROUND ALL OPENINGS FOR PIPES, DUCT, CONDUITS ETC. INSTALLED BY HIM AT ALL FIRE WALLS. FIRESTOPPING SHALL BE PERFORMED BY AN INSTALLER WHO HAS BEEN TRAINED BY THE MANUFACTURER, OR MANUFACTURERS REPRESENTATIVE, OF THE INSTALLATION PROCEDURES BASED ON PUBLISHED UL TESTED FIRE STOP SYSTEMS.
- FIRESTOPPING SHALL MEET THE REQUIREMENTS OF ASTM E-814 OR UL 1479 FIRE TESTS BY A RECOGNIZED TESTING AGENCY. FIRESTOPPING SHALL ALSO CONFORM TO ALL GOVERNING CODES, LOCAL BUILDING CODE, STATE BUILDING CODE, NFPA 101 - LIFE SAFETY CODE AND NFPA 70 - NATIONAL ELECTRIC CODE.
- PENETRATION:
 - CLEAN PENETRATION HOLES OF DIRT, LOOSE MATERIALS AND FOREIGN MATTER WHICH MAY AFFECT FIRE RATING.
 - REMOVE COATINGS SUCH AS PAINT, CURING COMPOUNDS, WATER REPELLENT & SEALERS AS REQUIRED.
 - INSTALL BACKING MATERIALS TO PREVENT LIQUID MATERIAL LEAKAGE.

4. APPLICATION

- PREPARE AND APPLY PENETRATION SEALING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS
- EMPLOY INSTALLATION TECHNIQUES WHICH WILL ENSURE THAT FIRESTOPPING IS DEPOSITED TO FILL AND SEAL HOLES AND OPENINGS.
- TOOL EXPOSED SURFACES OF APPLIED SEALANT TO SMOOTH FINISH.
- PROTECT MATERIALS FROM DAMAGE ON SURFACES SUBJECTED TO TRAFFIC.

E. PROVIDE INTUMESCENT SEALANTS AND COLLARS AT OPENINGS INVOLVING PLASTIC OR INSULATED PIPE SIMILAR TO THE METACALK SERIES 880 AND 950.

F. FIRESTOPPING BY DOW CORNING, 3M, HILTI OR METACALK MAY FURNISHED AT THE CONTRACTOR'S OPTION.

SECTION 15400 PLUMBING

1. SCOPE OF WORK:

- FURNISHING OF ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION SERVICES, ETC. NECESSARY TO COMPLETE THE INSTALLATION OF THE PLUMBING SYSTEM AND AS DESCRIBED IN THESE SPECIFICATIONS, AS ILLUSTRATED ON THE ACCOMPANYING DRAWINGS, OR AS DIRECTED BY THE ARCHITECT.
- ALL HOT AND COLD WATER SYSTEMS WITH COMPLETE CONNECTIONS FROM THE WATER METER, OR LANDLORD PROVIDED SUB-IN, TO ALL PLUMBING FIXTURES AND EQUIPMENT REQUIRING WATER CONNECTIONS. THESE SYSTEMS WILL BE COMPLETE WITH CONTROLS, VALVES, EQUIPMENT, DEVICES AND INSULATION.
- ALL SOIL, WASTE, AND VENT SYSTEMS OUTSIDE AND INSIDE THE BUILDING AND SEWER CONNECTIONS TO MUNICIPAL SYSTEM OR LANDLORD PROVIDED SUB-IN, AS INDICATED ON DRAWINGS.
- FURNISH AND SET PLUMBING FIXTURES, INCLUDING ALL THE REQUIRED TRIM AND SUPPORTS.
- TRENCHING, PIPE BEDDING AND BACKFILLING.
- ALL ROUGH-IN AND FINAL CONNECTION TO EQUIPMENT IN THE KITCHEN, BAR AND SERVICE AREAS, IF INDICATED ON THE DRAWINGS, INCLUDING AND OPERATING EQUIPMENT, FURTHER, GUARANTEE TO REBALANCE AND ADJUST ENTIRE SYSTEM OR ANY PART THEREOF, AS REQUIRED FOR PERFECT OPERATION FOR A PERIOD OF AT LEAST ONE (1) YEAR AFTER ACCEPTANCE, INCLUDING COST OF REFRIGERANT CHARGE, REPAIR, REPLACE AND MAKE SATISFACTORILY OPERATING MATERIALS AND ALL DEFECTIVE ITEMS AND, WORK HOLDING OWNER FREE FROM ANY COST AND LIABILITY IN CONNECTION THEREWITH FOR THE TERM OF GUARANTEE. THE MANUFACTURER SHALL PROVIDE A WARRANTY ON HIS UNIT COMPRESSORS FOR A PERIOD OF FIVE (5) YEARS AND HEAT EXCHANGER FOR A PERIOD OF 10 YEARS.

2. SHOP DRAWINGS:

- WITHIN 15 DAYS AFTER AWARD OF CONTRACT, AND BEFORE ANY PLUMBING MATERIALS ARE DELIVERED TO THE JOB SITE, SUBMIT TO THE OWNER THREE (3) COMPLETE SHOP DRAWINGS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 01300 OF THESE SPECIFICATIONS, INCLUDING ALL PLUMBING FIXTURES, TRIM, DRAINS, CLEANOUTS, PIPING, VALVES, INSULATION, HANGERS, SUPPORTS, EQUIPMENT AND DEVICES PROPOSED TO BE FURNISHED AND INSTALLED. SHOP DRAWINGS SHALL NOT BE REVIEWED UNLESS THEY BEAR THE REVIEW STAMP OF THE GENERAL CONTRACTOR.
- PRODUCT HANDLING:
 - IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF, AND AT NO ADDITIONAL COST TO THE OWNER.

4. EXAMINATION OF THE SITE:

- ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS, INCLUDING LOCAL RULES AND REGULATIONS, THEREON AND/OR THEREIN. ALL PROPOSALS SHALL HAVE TAKEN INTO CONSIDERATION ALL CONDITIONS THAT MAY AFFECT THE WORK UNDER THIS CONTRACT. LACK OF THIS INFORMATION WILL NOT BE CONSIDERED AS JUSTIFICATION FOR EXTRA COST OR ALLOWANCES TO THE CONTRACT PRICE.

5. GUARANTEE:

- ALL WORK PERFORMED UNDER THIS SECTION SHALL BE GUARANTEED TO BE FREE OF DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
- UPON NOTICE RECEIVED FROM THE OWNER, ARCHITECT OR ENGINEER, OF FAILURE OF ANY PART OF THE GUARANTEED EQUIPMENT DURING THE GUARANTY PERIODS, THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER, SHALL PROMPTLY REPLACE THE AFFECTED PART OR PARTS WITH NEW PARTS. ALL LABOR REQUIRED TO PERFORM GUARANTEED SHALL BE INCLUDED AS PART OF THE COMPLETE WARRANTY.

6. PRODUCTS:

- DESCRIPTION:
 - SOIL, WASTE, AND VENT PIPING: BELOW FLOOR TO 5'-0" OUTSIDE BUILDING AND YARD PIPING SHALL BE A.B.S. OR P.V.C. SCHEDULE 40 PIPE AND FITTINGS IF APPROVED BY LOCAL AUTHORITY, OR STANDARD WEIGHT COATED CAST IRON SOIL PIPE AND CAST IRON/NEOPRENE GASKET FITTINGS. YARD PIPING, WHERE UNDER A SUPERIMPOSED LOAD CONDITION SUCH AS A DRIVEWAY OR PARKING AREA, SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE AND CAST IRON/NEOPRENE GASKET FITTINGS.
 - ABOVE FLOOR SHALL BE A.B.S. OR P.V.C. SCHEDULE 40 IF APPROVED BY LOCAL AUTHORITY, OR STANDARD WEIGHT CAST IRON PIPE WITH NEOPRENE RUBBER GASKETS OR HUBLESS CAST IRON PIPE WITH NEOPRENE RUBBER GASKETS AND STAINLESS STEEL CLAMPS (CLAMPS ALL OR EQUAL).
 - HOT AND COLD WATER PIPING:
 - ABOVE THE FLOOR SHALL BE TYPE "L" COPPER WITH 95% SWEAT SOLDERED AND WROUGHT COPPER FITTINGS. UNDER BUILDING SLABS SHALL BE TYPE "K" SOFT DRAWN COPPER TUBING WITHOUT JOINTS UNDER FLOOR. LOOP FROM WALL TO WALL.
 - CONDENSATE DRAIN PIPING SHALL BE GALVANIZED SCHEDULE 40 OR P.V.C. FROM HVAC ON ROOF AND OTHER EQUIPMENT UNLESS STATED OTHERWISE.
 - INDIRECT WASTE PIPING: SHALL BE TYPE "L" COPPER WITH 85% SWEAT SOLDER AND WROUGHT COPPER FITTINGS (SEE PLUMBING PLAN FOR REQUIREMENTS) UNLESS OTHERWISE INDICATED.
 - GAS PIPING:
 - GAS PIPING INCLUDING TAP AND SERVICE SHALL BE INCLUDED. COORDINATE METER LOCATION WITH LOCAL AUTHORITY.
 - UNDERGROUND GAS PIPING SHALL BE PLASTIC APPROVED GAS PIPING WITH LONG RADIUS STEEL WELDING FITTINGS. PROTECT PIPE AND FITTINGS WITH ONE INCH OF JOBS ACCEPTANCE. THIS INCLUDES ALL WORK REQUIRED TO REMOVE AND REPLACE THE DEFECTIVE ITEM AND TO MAKE ALL NECESSARY ADJUSTMENTS TO RESTORE THE ENTIRE INSTALLATION TO ITS ORIGINAL SPECIFIED OPERATING CONDITION AND FINISH AT THE TIME OF ACCEPTANCE.
 - STORM DRAIN LEADER: SAME AS SOIL, WASTE & VENT PIPING.
- INSULATION:
 - ALL WATER PIPES, RAIN LEADERS AND ETC. SHALL BE INSULATED. PIPING SHALL BE INSULATED TO PREVENT EXCESSIVE HEAT LOSS AND TO PREVENT CONDENSATION AND SWEATING. ALL PIPING SHALL BE INSULATED WITH AT LEAST 1/2" THICK FOAM INSULATION AS MANUFACTURED BY ARMSTRONG ARMAFLEX OR APPROVED EQUAL AS INDICATED ON PLANS AND NOTES. AS LONG AS THE INSULATION IS POSSIBLE SHALL BE SLIPPED ON TO THE PIPING AS THE PIPING IS BEING CONNECTED IN ORDER TO AVOID CUTTING THE INSULATION. ALL BUTT ENDS AND ANY NECESSARY LONGITUDINAL JOINTS SHALL BE SEALED WITH RUBBER BASED ADHESIVE.

7. FIXTURES:

- SEE DRAWINGS FOR SPECIFICATIONS.

8. FLASHINGS:

- LANDLORD'S DESIGNATED ROOFING CONTRACTOR SHALL PROVIDE WATER TIGHT FLASHING WITH SIX POUND TO THE SQUARE FOOT LEAD USING SLEEVE FOR ALL PIPING AND VENTS PASSING THROUGH ROOF. FLASHING WITH BASE EXTENDING AT LEAST 12 INCHES IN EACH DIRECTION BEYOND THE OUTSIDE DIAPHRAGM OF THE PIPE. TURN SLEEVE DOWN A MINIMUM OF 1-1/2 INTO TOP OF VENT PIPE WITH LEAD FITTING SNUGLY INSIDE OF PIPE. ALL GAS VENT CAPS SHALL BE FITTED WITH LEAD FITTING SNUGLY INSIDE OF PIPE. ALL VENT CAPS SHALL BE VANDAL PROOF. VERIFY APPROVED FLASHING MATERIAL AND METHODS WITH LANDLORD'S DESIGNATED ROOFING CONTRACTOR TO ENSURE A COMPLETE JOB. SEE DETAILS ON ARCH. SHEETS.

9. CLEANOUTS:

- SEE DRAWINGS FOR SPECIFICATIONS.

10. EQUIPMENT:

- A WATER HEATER EXISTING TO REMAIN

B. VALVES, COCKS AND FAUCETS:

- UNLESS SPECIFICALLY INDICATED ELSEWHERE, THE VALVES SHALL BE DESIGNED FOR NOT LESS THAN 126 LBS. WORKING PRESSURE. THE VALVES SHALL HAVE ADJUSTABLE VALVE BODY PATTERNS FOR CONNECTION TO THE PIPE FOR WHICH THEY WILL OPERATE. ALL VALVES WITH RISING STEMS SHALL HAVE BACK SEATS FOR PACKING UNDER PRESSURE. APPROVED EQUAL GATE VALVES AND CHECK VALVES AS MANUFACTURED BY STOCKHAM, WALWORTH, LUNKENHEIMER, SCOTT, HAMMOND, CRANE OR WAITS SHALL BE ACCEPTABLE.
- GATE VALVES SHALL BE HAMMOND 1863A SPLIT WEDGE OR APPROVED EQUAL.
- CUTOFF VALVES UNDERNEATH LAVATORIES, TANK TYPE WATER CLOSETS, SANITARY SINKS AND WATER COOLERS SHALL BE CHROME PLATED ANGLE STOP VALVES WITH SOFT ANNEALED CHROME PLATED COPPER CONNECTION PIPES AND CHROME PLATED ESCUTOCHON PLATES.
- GAS COCKS FOR ALL EQUIPMENT: SEE DRAWINGS FOR REQUIREMENTS.
- WATER CUTOFF VALVE SHALL BE NIBCO #S-112 OR APPROVED EQUAL BRONZE SOLDER JOINT, 125 LB. WOG WITH RISING STEMS.
- EXTERIOR HOSE COCKS AND VALVE FIXTURES TO BE NON-FREEZE TYPE, SUPPLY SHUT-OFF VALVES IF INDICATED ON PLANS.

11. EXECUTION:

A. PIPING:

- ALL PIPING SHALL BE RUN CONCEALED EXCEPT WHERE SHOWN OTHERWISE ON DRAWINGS.
- VALVES, TRAPS, CLEANOUTS AND OTHER APPARATUS SHALL BE INSTALLED IN AN INCONSPICUOUS LOCATION.
- SOIL, WASTE AND VENT OFFSETS AND HOUSE DRAINS SHALL BE INSTALLED WITH A MINIMUM, UNIFORM GRADE OF 1/8" TO THE FOOT, UNLESS OTHERWISE INDICATED OR REQUIRED BY LOCAL CODES.
- HOT AND COLD WATER LINES SHALL BE AT LEAST 6" APART WHERE PIPING IS PARALLEL.
- ALL WATER LINES SHALL BE RUN OVERHEAD AND DOWN PARTITION WALLS UNLESS NO WALL IS PROVIDED. THEN RUN LINES UNDER SLAB TO POINT OF TERMINATION. ALL LINES SHALL BE CONCEALED UNLESS NOTED OTHERWISE ON PLANS.

B. HANGERS AND SUPPORTS:

- COPPER PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 7'-0" AND AT EACH CHANGE IN HORIZONTAL OR VERTICAL DIRECTION. HANGERS SHALL BE FEE & MASON PLASTIC COATED HANGER, FIG. 381 OR APPROVED EQUAL, BY GRINNELL. HANGER ATTACHMENT TO STRUCTURE SHALL BE AS REQUIRED.
- GAS PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED 8'-0" AND AT EACH CHANGE IN HORIZONTAL OR VERTICAL DIRECTION. STEEL PIPE HANGERS SHALL BE GRINNELL FIG. 104 OR FEE & MASON FIG. 199. ATTACHMENT TO STRUCTURE TO BE AS REQUIRED.
- HANGER RODS SHALL BE STANDARD BOLT STEEL WITH MACHINE SCREW THREADS, 3/8" DIAMETER MINIMUM.
- ALL PIPING UNDERGROUND SHALL BE FIRMLY BEDDED ON THE BODY OF THE PIPE, AND BELL HOLES PROVIDED AT EACH BELL. ALL PIPING SHALL BE INSTALLED IN GRADED TRENCH. EXCAVATE, BACKFILL AND SUPPORT PIPING IS HEREIN BEFORE SPECIFIED.

C. PLUMBING FIXTURES:

- FURNISH AND INSTALL ALL PLUMBING FIXTURES COMPLETE WITH ALL EQUIPMENT FITTINGS, TRIMMINGS AND ACCESSORIES, AS SPECIFIED ON OPEN FRONT SEATS WITH NO COVERS AS MANUFACTURED BY OLSONITE WILL BE ACCEPTED.
- ALL FIXTURES SHALL BE GRADE A. THE NAME OR TRADE MARK OF THE MANUFACTURER SHALL BE PRINTED OR PRESSED ON ALL CLOSETS AND LAVATORIES, AND A LABEL, WHICH CANNOT BE REMOVED WITHOUT DESTROYING IT, CONTAINING THE MANUFACTURER'S NAME OR TRADEMARK AND THE QUALITY OR CLASS OF THE FIXTURES, SHALL BE AFFIXED TO OIL FIXTURES AND NOT REMOVED UNTIL AFTER THE WORK HAS BEEN ACCEPTED.
- EXPOSED PIPING TO FIXTURES SHALL BE A PRODUCT OF THE FIXTURE MANUFACTURER OR APPROVED EQUAL AND SHALL BE:
 - WATER: CHROMIUM PLATED IRON PIPE SIZE RED BRASS.
 - WASTE: CHROMIUM PLATED TUBING, EXCEPT WASTE CONNECTIONS TO KITCHEN OR SCULLERY SINKS.
- STOPS AS MANUFACTURED BY THE FIXTURE MANUFACTURER, WITH METAL-TO-METAL SEAT, SHALL BE PROVIDED FOR ALL FIXTURES AND EQUIPMENT. REFER TO SCHEDULE ON DRAWINGS FOR MANUFACTURERS' AND MODEL NUMBERS USED AS GUIDE SPECIFICATIONS. NUMBERS NS LISTED REPRESENT THE COMPLETE WORKABLE OUTFITS WITH ALL BRASS TRIM AS NECESSARY.
- FIXTURES SHALL BE WHITE UNLESS OTHERWISE NOTED.
- FIXTURES FURNISHED BY THIS CONTRACTOR OR BY THE OWNER SHALL BE FITTED WITH NECESSARY WATER SUPPLIES, STOPS AND TRAPS WITH CLEANOUT PLUGS UNDER THIS SECTION OF THE SPECIFICATIONS.

D. TESTS:

- THE PLUMBING SYSTEM AND ASSOCIATED SYSTEM SHALL BE SUBJECT TO CONSTANT INSPECTION AND FINAL APPROVAL OF THE CODE AUTHORITIES HAVING JURISDICTION. TESTS, IN ADDITION TO THOSE INCLUDED IN THIS SECTION, REQUIRED TO SHOW CODE COMPLIANCE, SHALL BE PERFORMED AS DIRECTED.
- THE SOIL, WASTE AND VENT LINES OF THE SANITARY SYSTEMS SHALL BE SUBJECTED TO A WATER PRESSURE TEST OF NOT LESS THAN 10 FEET OF WATER HEAD PRESSURE OR 54 POUNDS OF AIR PRESSURE FOR A DURATION OF NOT LESS THAN 2 HOURS. DURING THE PRESSURE TESTS EACH JOINT SHALL BE INSPECTED FOR LEAKS. THE LINES SHALL BE TESTED AS AN ENTIRE SYSTEM, BUT ALL THE UNDERGROUND AND CONCEALED LINES SHALL BE GIVEN THE ABOVE TEST AND APPROVED BEFORE THE LINES ARE COVERED.
- THE DOMESTIC WATER PIPING SYSTEM SHALL BE SUBJECTED TO A WATER PRESSURE TEST OF NOT LESS THAN 150 PSI FOR DURATION OF NOT LESS THAN 2 HOURS. THE WATER PIPING SHALL BE TESTED AS AN ENTIRE SYSTEM, BUT ALL UNDERGROUND AND CONCEALED LINES SHALL BE GIVEN THE ABOVE TEST AND APPROVED BEFORE THE LINES ARE COVERED.
- THE GAS SYSTEM, DOWNSTREAM FROM THE GAS REGULATOR CONNECTION AND THROUGHOUT THE NEW WORK, SHALL BE SUBJECTED TO AN AIR PRESSURE TEST OF NOT LESS THAN 50 PSI FOR A DURATION OF NOT LESS THAN 4 HOURS AND AT THE SAME TIME EACH JOINT AND CONNECTION SHALL BE TESTED BY APPLYING SOAP SUDS TO EACH JOINT. THE GAS PIPING SHALL BE TESTED AS AN ENTIRE SYSTEM, BUT ALL UNDERGROUND AND CONCEALED LINES SHALL BE TESTED AS AN ENTIRE TEST AND APPROVED BEFORE BEING COVERED. FURTHER, EACH EXPOSED JOINT SHALL BE TESTED WITH SOAPSUDS AFTER THE GAS HAS BEEN ADMITTED INTO THE SYSTEM.
- SHOULD THE CONTRACTOR REFUSE OR NEGLECT TO MAKE ANY TESTS NECESSARY TO SATISFY THE OWNER, HIS REPRESENTATIVE OR CODING OFFICIALS THAT HE HAS CARRIED OUT THE TRUE INTENT AND MEANING OF THE SPECIFICATIONS, THE OWNER MAY TAKE SUCH TESTS AND CHARGE THE EXPENSE THEREOF TO THE CONTRACTOR.

E. CLEANING AND PROTECTION:

- THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DEBRIS AND LEFTOVER MATERIALS FOR WHICH HE IS RESPONSIBLE, CLEAN ALL FIXTURES AND EQUIPMENT AND REPAIR ANY BLEMISHES IN THE FINISH. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REPLACING FIXTURES WHERE DAMAGE RESULTS FROM FAILURE TO PROVIDE PROTECTION DURING INSTALLATION.
- FLUSH OUT PIPES: AFTER THE PLUMBING PIPING HAS BEEN INSTALLED, INSPECTED AND APPROVED, THE PIPING SYSTEM SHALL BE FLUSHED TO REMOVE ANY FOREIGN MATTER FROM THE PIPES WITH CHLORINE OR HTH SOLUTION TO SANITIZE THE NEW PIPING OR AS REQUIRED BY THE LOCAL AUTHORITIES.

F. MAINTENANCE:

- THE CONTRACTOR, THROUGHOUT THE GUARANTEE PERIOD, SHALL MAINTAIN ALL PARTS OF THE PLUMBING FIXTURES AND ASSOCIATED EQUIPMENT. ONE MONTH AFTER FINAL ACCEPTANCE OF THE BUILDING BY THE OWNER, THE CONTRACTOR SHALL GO OVER ALL THE FIXTURES AND TEST ALL WORKING PARTS AND PUT EVERYTHING IN GOOD WORKING ORDER. ALL FIXTURES, INCLUDING TRAPS, SHALL BE THOROUGHLY CLEANED AND ALL PARTS PUT IN GOOD WORKING ORDER.

SECTION 15550 - SPRINKLER SYSTEM

1. SCOPE OF WORK

- WORK INCLUDED UNDER THIS SECTION CONSISTS OF PROVIDING LABOR, MATERIALS, APPLIANCES, EQUIPMENT, TOOLS, TRANSPORTATION, SUPERINTENDENCE AND SERVICES REQUIRED TO CONSTRUCT AND INSTALL A SPRINKLER SYSTEM AS SPECIFIED, INDICATED AND ELSEWHERE REQUIRED.

B. THE SPRINKLER SYSTEM SPECIFIED HEREIN IS REQUIRED TO MEET THE LOCAL BUILDING CODE.

- FIRE SPRINKLER PIPING: ABOVE GROUND PIPING SHALL BE F.M. APPROVED SCHEDULE 40 BLACK STEEL. SCHEDULE 10 PIPING SHALL BE JOINED WITH F.M. APPROVED ROLL-GROOVED FITTINGS, NOT THREADED OR PLAIN-END. FITTINGS SHALL BE CAST IRON OR STEEL APPROVED FOR A MINIMUM OF 175 PSI WORKING PRESSURE. DRY SYSTEMS SHALL HAVE F.M. APPROVED GALVANIZED PIPING AND FITTINGS FOR CORROSION RESISTANCE.

THREADABLE "LIGHTWALL" (XL) AND "THINWALL" PIPE MAY NOT BE UTILIZED UNDER ANY CIRCUMSTANCES.

2. PRODUCTS

- HANGERS MUST MEET NFPA APPROVED TYPE FOR CONSTRUCTION USED.
- SPRINKLERS

- SPRINKLERS SHALL BE APPROVED AUTOMATIC SPRAY SPRINKLERS TO COMPLY WITH NFPA 13. SPRINKLERS SHALL BE OF OPERATING TEMPERATURE AS REQUIRED BY NFPA AND THE FIRE MARSHAL'S OFFICE AND INSURANCE UNDERWRITERS. PROVIDE APPROVED METAL CABINET WITH NUMBER OF REPLACEMENT HEADS OF VARIOUS TYPES AND QUANTITIES AS REQUIRED BY INSURING AGENCY.
- STANDARD CHROME PENDANT SPRINKLERS WITH LARGE ESCUTOCHON (1 1/2") 1/2" DISCHARGE ORIFICE IN KITCHEN & SERVICE AREAS.

3. EXECUTION

- INSTALLATION
 - DRAWINGS WERE PRE

SECTION 15770 - HEATING, VENTILATING AND AIR CONDITIONING

- WORK INCLUDED:
- A. HEATING, VENTILATING AND AIR CONDITIONING WORK REQUIRED, INCLUDING HOISTING OF EQUIPMENT TO THE ROOF AND SETTING IT IN PLACE, INCLUDES, BUT NOT NECESSARILY LIMITED TO:
1. PACKAGE HEATING, VENTILATING AND AIR CONDITIONING UNITS (IF NOT EXISTING NOTED TO BE REUSED).
 2. INSTALLATION OF OWNER FURNISHED EXHAUST HOOD, EXHAUST FANS AND MAKE-UP AIR UNIT (DUCTWORK FURNISHED & INSTALLED BY CONTRACTOR).
 3. PACKAGING & HOOD EXHAUST DUCTS, DAMPERS, GRILLS, REGISTERS AND DIFFUSERS.
 4. INSULATION OF DUCTS AND PIPING.
 5. HVAC CONTROLS, REMOTE TEMPERATURE SENSORS AND CONTROL WIRING.
- B. GAS CONNECTIONS (IF REQUIRED SEE DRAWINGS); PLUMBING CONTRACTOR WORK, BRASS PIPING TO HEATING AND VENTILATING AIR CONDITIONING AND FINAL TIE-IN TO HVAC BY PLUMBING CONTRACTOR.
2. INTENT OF DRAWINGS:
- A. THE DRAWINGS ARE DIAGRAMMATIC TO THE EXTENT THAT THEY DO NOT INDICATE OFFSETS, BENDS, SPECIAL FITTINGS AND EXACT LOCATIONS.
- B. PIPING, DUCTWORK, APPARATUS AND EQUIPMENT SHALL BE INSTALLED TO AVOID OBSTRUCTIONS, PRESERVE HEADROOM, KEEP OPENINGS AND PASSAGEWAYS CLEAR, AND MAKE ALL OPERATING EQUIPMENT ACCESSIBLE FOR MAINTENANCE.
- C. GOVERNING CODES AND STANDARDS:
1. INSTALL ALL WORK IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE STANDARDS OF SAFETY, ADOPTED AND APPROVED BY THE BOARD OF ARCHITECTS AND ENGINEERS AND THE LATEST STANDARDS RECOGNIZED BY ASHRAE AND SMACNA AND IN ACCORDANCE WITH LOCAL CODE.
 2. IN CASE OF CONFLICT BETWEEN SAID CODES AND THE DRAWINGS, THE CONTRACTOR SHALL GOVERN IN ALL CASES, HOWEVER, NOTIFY OWNER, BEFORE MAKING SUCH CHANGE.
3. EXAMINATIONS OF DRAWINGS AND SITE:
- A. BEFORE COMMENCING THE WORK, THE CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS AND SITE. HE SHALL DEFINITELY DETERMINE IN ADVANCE THE METHODS OF INSTALLING AND CONNECTING THE APPARATUS, THE MEANS FOR GETTING THE EQUIPMENT INTO PLACE, AND SHALL MAKE THEMSELVES FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE CONTRACT. EQUIPMENT SHALL PHYSICALLY FIT THE AREA ALLOCATED WITH AMPLE ACCESS FOR SERVICE.
- B. THE CONTRACTOR SHALL REFER ANY DISCREPANCIES TO THE ARCHITECT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
4. SUBMITTALS:
- A. MATERIALS LIST: THE CONTRACTOR SHALL SUBMIT, AT HIS EXPENSE, THREE (3) COPIES OF EQUIPMENT BROCHURES IN INDEX FORM WITHIN FIFTEEN (15) DAYS AFTER CONTRACT IS SIGNED. ALL EQUIPMENT AND MATERIAL SUBMITTALS SHALL BE SUBMITTED AT ONE TIME. THE DRAWINGS SUBMITTED BY THE CONTRACTOR SHALL BE THE BASIS OF APPROVAL OF THE CONTRACTOR AS EVIDENCE THAT THE DRAWINGS HAVE BEEN CHECKED BY THE CONTRACTOR AND COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.
5. GUARANTEE:
- A. FURNISH WRITTEN CERTIFIED GUARANTEE, IN ACCEPTABLE FORM, TO THE OWNER, AGAINST DEFECTIVE WORKMANSHIP, MATERIALS, AND OPERATING EQUIPMENT; FURTHER, GUARANTEE TO REBALANCE AND ADJUST ENTIRE SYSTEM OR ANY PART THEREOF, AS REQUIRED FOR PERFECT OPERATION FOR A PERIOD OF AT LEAST ONE (1) YEAR AFTER GUARANTEE, INCLUDING COST OF REFRIGERANT CHARGE, REPAIR, REPLACE AND MAKE SATISFACTORILY OPERATIVE ANY AND ALL DEFECTIVE ITEMS AND, WORK HOLDING OWNER FREE FROM ANY COST AND LIABILITY IN CONNECTION THEREWITH FOR THE TERM OF GUARANTEE. THE CONTRACTOR SHALL PROVIDE A WARRANTY ON HIS UNIT COMPRESSORS FOR A PERIOD OF FIVE (5) YEARS AND HEAT EXCHANGER FOR A PERIOD OF 10 YEARS.
6. COORDINATION OF OTHER TRADES:
- A. THE WORK UNDER THIS SECTION SHALL BE COORDINATED WITH OTHER TRADES TO MAINTAIN A RAPID AND SMOOTH CONSTRUCTION PROGRESS WITH A MINIMUM OF INTERFERENCE.
7. PAINTING:
- A. APPLY ONE (1) COAT OF ZINC CHROMATE, OR RUSTOLEUM TO BARE METAL SURFACES OF SUPPORTS, ETC. COLOR TO MATCH UNITS' COLOR OR AS DIRECTED BY ARCHITECT OR OWNER.
8. CLEAN-UP:
- A. ALL EQUIPMENT AND EXPOSED SURFACES SHALL BE LEFT SMOOTH AND CLEAN. ALL PLATE WORK SHALL BE POLISHED AND THE ENTIRE PREMISES SHALL BE CLEANED OF UNUSED MATERIALS, RUBBISH, AND DEBRIS AND GREASE SPOTS.
9. PRODUCTS:
- A. GENERAL:
1. ALL EQUIPMENT SHALL BE THE CAPACITY AND TYPE SHOWN ON THE EQUIPMENT SCHEDULE ON THE DRAWINGS AND SHALL AS MANUFACTURED BY ONE OF THE MANUFACTURERS DESIGNATED ON THAT SCHEDULE OR SHALL BE AN EQUAL APPROVED IN ADVANCE BY THE ARCHITECT.
- B. SHEETMETAL WORK:
1. SHEETMETAL: PRIME STEEL SHEETS, HOT DIPPED GALVANIZED OF THE FOLLOWING GAUGES:
 - a. UP TO 12" WIDE OR DIAMETER, #26
 - b. 13" TO 30" WIDE OR DIAMETER, #24
 - c. 31" TO 60" WIDE OR DIAMETER, #21
 - d. PARTITIONS FORMING PLENUM OR SUCTION CHAMBERS, #18 GAUGE WITH 1/2" X 1-1/2" X 3/16" GALVANIZED IRON ANGLE AND RIVETS FOR SEAM CONNECTION AND STIFFENING.
 - e. EPOXIED ROUNDED DUCT SHALL BE SPRAYED WITH TYPE SIMILAR TO SEMCO "SS" 75 DUAL WALL ROUNDED PIPE WITH 2" INSULATION, PERFORATED LINER WITH ALL REQUIRED FITTINGS. PIPE SHALL BE 24-26 GA.
 2. DUCT CONSTRUCTION:
 - a. LONGITUDINAL JOINTS: PITTSBURGH CORNER SEAMS OR SNAP LOCK.
 - b. TRANSVERSE JOINTS: GOVERNMENT LOCKS RIVETED AT CORNERS, CONSTRUCTED OF METAL ONE GAUGE HEAVIER THAN THAT JOINTING DUCT SECTIONS. DUCTS UNDER 20" MAY BE JOINED WITH TRANSVERSE CAP STRIPS.
 - c. SUPPORTS: EXCEPT AS OTHERWISE SPECIFIED, ALL DUCT HANGERS SHALL BE CONSTRUCTED OF 3/4" NO. 16 GALVANIZED STRAP, SPACING NOT TO EXCEED EIGHT FOOT INTERVALS, WHERE DUCT HANGERS EXCEED SIX INCHES IN LENGTH, PROVIDE ADEQUATE BRACING. ALL VERTICAL DUCTS SHALL BE SUPPORTED ON ANGLE IRON BRACKETS.
 - d. ELBOWS: MADE FOR AN EASY FLOW OF AIR FOR MINIMUM FRICTION, INCLUDE RADIUS EQUAL TO LENGTH OF DUCT. PROVIDE ELBOWS WITH APPROVED DUCT TURNS WHERE INDICATED ON PLANS OR WHERE SPACE DOES NOT PERMIT REQUIRED RADIUS.
 - e. FLEXIBLE CONNECTION: AT ALL FANS, CONNECTIONS SHALL BE NEOPRENE COATED SIX PLY FIBERGLASS CLOTH WHICH ARE TO BE TURNED INTO ABUTTING ENDS OF SHEETMETAL OR ANGLE IRON FRAMES SO AS TO FORM A GASKET TO FORM AN AIRTIGHT JOINT.
 - f. WORKMANSHIP AND CONSTRUCTION SHALL MEET AND EXCEED THE STANDARDS AS SET FORTH BY SMACNA.
- C. GRILLES, REGISTERS AND DIFFUSERS:
1. SIZES: AS INDICATED ON DRAWINGS.
 2. SUPPLY DIFFUSERS: AS INDICATED ON DRAWINGS.
 3. RETURN AIR REGISTERS: AS INDICATED ON DRAWINGS.
- D. DUCT INSULATION:
1. INSULATE ALL SUPPLY, MAKE-UP AIR AND RETURN AIR DUCTS WITH 2" THICK (34 LB. DENSITY) WITH VALUE OF R-5 EXTERNALLY INSULATED WITH FOAMED BLANKET. SEE PLANS FOR ADDITIONAL INFORMATION (NOTES AND POLYETHYLENE JACKET, CONNECTION TO DUCT AND DIFFUSERS VIA NYLON PADPUIT TIES OR EQUIVALENT).
- E. FLEX DUCT:
1. FLEX DUCT FOR ROUND CONNECTIONS OF SHEET METAL LOW PRESSURE SUPPLY DUCT TO DIFFUSERS/REGISTERS ONLY AND SHALL NOT BE LONGER THAN 18". DUCT SHALL EMPLOY A TWO PLY CORE WITH AN ENCAPSULATED WIRE HELD ON 1-1/2" CENTERS. PROVIDE 1" INSULATION WITH 1/2" FIBERGLASS CLOTH OVER SPRING (ROUND DUCT).

E. ROOFTOP UNIT EQUIPMENT

- AGREEMENT WITH LENNOX INDUSTRIES. PLEASE CONTACT YOUR LOCAL LENNOX SALES OFFICE FOR PRICING, OR CONTACT LENNOX NATIONAL ACCOUNT MANAGER: CHRIS MURRAY AT 1-800-367-4285.
2. THE RISER SHALL BE 8" O.D., 6" I.D. WB, 105' F OUTDOOR AMBIENT.
3. NO UNIT LOSSES INCLUDED. ALLOW FOR WET COIL AND DIRTY FILTER.
4. PROVIDE ROOF CURB
5. PROVIDE ECONOMIZER AND BAROMETRIC RELIEF DAMPER.
6. PROVIDE TWO SETS OF 2" 30% PLEATED FILTERS. CHANGE FILTERS PRIOR TO AIR BALANCE, AND AFTER FINAL STORE CLEANING.
7. PROVIDE 7 DAY FULLY PROGRAMMABLE ENERGY CODE COMPLIANT COMMERCIAL THERMOSTAT IN MANAGERS OFFICE. PROVIDE REMOTE SENSOR AT LOCATION SHOWN IN DINING ROOM KITCHEN. THERMOSTAT TO HAVE ECONOMIZER CONTROL CAPABILITY.
8. PROVIDE UNIT WITH CO2 INDOOR AIR QUALITY SENSOR AND CONTROLS. MINIMUM SETTING 50% REQUIRED VENTILATION.
9. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SMOKE DETECTOR, ELECTRICAL CONTRACTOR TO WIRE. SMOKE DETECTOR TO SIGNAL FIRE ALARM PANEL AND TURN OFF ROOFTOP UNIT PROVIDED.
10. NEMA 3P DISCONNECT SWITCH AND W/P, GFCI SHALL BE PROVIDED WITH THE ROOFTOP UNIT.
- EXECUTION:
- A. INSTALLATION OF EQUIPMENT:
1. GENERAL:
- a. INSTALL ALL EQUIPMENT WHERE INDICATED ON THE APPROVED CONTRACT DRAWINGS.
- b. AVOID INTERFERENCE WITH STRUCTURE AND THE WORK OF OTHER TRADES. **DO NOT CUT INTO LOAD CARRYING MEMBERS WITHOUT THE SPECIFIC APPROVAL OF THE ARCHITECT.**
- c. TEMPERATURE CONTROL SYSTEM SHALL BE AS SHOWN ON THE DRAWINGS.
- B. ACCEPTANCE:
1. THE SYSTEM SHALL NOT BE CONSIDERED FOR ACCEPTANCE UNTIL THE MECHANICAL SUBCONTRACTOR HAS COMPLETED WORK AND DEMONSTRATED TO THE REPRESENTATIVE OF THE OWNER, PROPER OPERATION OF THE SYSTEM AND STRICT COMPLIANCE WITH THE SPECIFICATIONS, PARTICULARLY IN REFERENCE TO THE FOLLOWING ARTICLES OF THESE SPECIFICATIONS,
- a. TESTING
- b. CLEANING
- c. INSTRUCTIONS AND OPERATING MANUALS
- d. TRAINING OF OPERATING PERSONNEL
- e. AS-BUILT DRAWINGS
- f. GUARANTEE CERTIFICATES
- g. START UP AND TEST DOCUMENT
- h. CONDITIONED AIR BALANCE REPORT
- C. AIR CONDITIONING UNIT START-UP AND TEST:
1. ALL AIR CONDITIONING EQUIPMENT SHALL BE STARTED AND CHECKED BY THE MANUFACTURER'S FACTORY SERVICE PERSONNEL. THE MANUFACTURER SHALL CORRECT ANY PROBLEMS ARISING WITH THE EQUIPMENT. THE MANUFACTURER SHALL PROVIDE A CHECKLIST OR REPORT ON THE OPERATION OF THE EQUIPMENT, WHICH SHALL BE FORWARDED TO THE ARCHITECT.
- D. GUARANTEE:
1. THE GUARANTEE PROVISION OF THIS SPECIFICATION REQUIRES PROMPT REPLACEMENT OF ALL DEFECTIVE WORKMANSHIP AND MATERIALS OCCURRING WITHIN ONE YEAR OF JOB ACCEPTANCE. THIS INCLUDES ALL WORK REQUIRED TO REMOVE AND REPLACE THE DEFECTIVE ITEM AND TO MAKE ALL NECESSARY ADJUSTMENTS TO RESTORE THE ENTIRE INSTALLATION TO ITS ORIGINAL SPECIFIED OPERATING CONDITION AND FINISH AT THE TIME OF ACCEPTANCE.
- TOILET EXHAUST FANS:
- A. EXISTING TO REPAIR:
- EXHAUST HOOD AND FAN SYSTEM:
- A. EXISTING TO REPAIR:
- FIRE DAMPER
- A. BASED ON RUSKIN FD-35, FIRE DAMPERS IN LOW VELOCITY DUCTWORK SHALL BE FURNISHED WITH INTERLOCKING HINGED BLADES. ALL REQUIREMENTS OF NFPA 90A, FURNISH WITH UL LABELED FUSIBLE LINKS WITH TEMPERATURE RANGES TO CONFORM TO NFPA RECOMMENDATIONS. ALL FIRE DAMPERS SHALL BE DYNAMIC TYPE.
1. DAMPERS AT WALL GRILLES, REGISTERS, ETC., SHALL BE TYPE "A" WITH INTERLOCKING AIR STREAM.
2. ALL OTHER FIRE DAMPERS SHALL BE TYPE "B" WITH BLADES. OUT OF THE AIR FURNISH UNLESS OTHERWISE NOTED.
- ACCESS DOORS
- A. ACCESS DOORS SHALL BE INSULATED, AIRTIGHT, "HINGED" AND GASKETED STYLE. WITH A MINIMUM OF TWO QUICK ACTION LATCHES. DOOR SHALL BE MOUNTED IN A GALVANIZED STEEL FRAME WITH AN INSIDE "TOLL-DOVER" OR "TOLL-UP" HANDLE. DOOR HEIGHT SHALL BE 24". WIDTH SHALL BE EQUAL TO THE DUCT WIDTH OR 12" WHICHEVER IS LESS, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS.

DIVISION 16 - ELECTRICAL

SECTION 16050 - GENERAL NOTES AND SPECIFICATION

- GENERAL:
- A. CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, LABOR, TOOLS, TRANSPORTATION, SUPERINTENDENCE AND RELATED ITEMS TO INSTALL A COMPLETE AND FULLY OPERATIVE INTERIOR AND EXTERIOR ELECTRICAL SYSTEM AS SPECIFIED HEREIN, SHOWN ON THE DRAWINGS AND ANYWHERE ELSEWHERE.
- B. ALL OUTLETS, FIXTURES AND EQUIPMENTS SHALL BE FULLY CONNECTED TO PROPER SOURCES OF POWER SUPPLY AND LEFT READY FOR USE.
- C. ALL ELECTRICAL EXAMINATIONS SHALL BE DONE BY MECHANICS SKILLED TO COMPLETE WORK, CORRECT ANY SETTLING DURING GUARANTEE PERIOD TO OWNER'S SATISFACTION.
- D. PROVIDE ALL NECESSARY CUTTING AND PATCHING AS REQUIRED TO COMPLETE WORK. ALL CUTTING SHALL BE DONE BY MECHANICS SKILLED TO THEIR WORK. ALL OPENINGS SHALL BE FILLED AND PATCHED TO CONFORM TO FIRE REGULATIONS.
- E. COOPERATE WITH OTHER TRADES: MAKE KNOWN TO OTHER TRADES REQUIREMENT OF WORK. COOPERATE WITH OTHER TRADES TO AVOID CONFLICTS. EXAMINE DRAWINGS OF OTHER TRADES TO DETERMINE EXACT EQUIPMENT LOCATIONS OF POWER REQUIREMENTS AND CONTROLS. EXAMINE MANUFACTURERS' SHOP DRAWINGS TO DETERMINE EQUIPMENT REQUIREMENTS.
- F. PERMITS, FEES & COSTS. PAY ALL COST FOR PERMITS, FEES AND INSPECTIONS REQUIRED BY AUTHORIZED AGENCIES HAVING JURISDICTION OVER ELECTRICAL WORK. ELECTRICAL SYSTEM SHALL CONFORM TO REQUIREMENTS OF THE MOST CURRENT NATIONAL, STATE AND LOCAL ELECTRIC CODES, LOCAL AUTHORITIES AND UTILITY COMPANY.
- G. ALL ELECTRICAL MATERIALS SHALL BE NEW, LISTED AND LABELED BY UL.
- H. ALL SHALL CONFORM TO INDUSTRY STANDARDS, PARTICULARLY NEMA, NFPA, N.E.C. & OTHERS.
- I. PROVIDE TYPEWRITTEN DRAWINGS IN PLASTIC CLAD MAPS WITH CLEAR PHOTO SHIELD, PROTECT DRAWINGS FROM DAMAGE BY WATER, AIR, ALL DISCONNECT SWITCHES, MOTOR STARTERS AND CONTROL DEVICES. TESTS: ENTIRE ELECTRICAL SYSTEM SHALL BE FULLY TESTED AND CORRECTED OF ANY SHORT CIRCUITS, OPEN GROUNDS, FAULTY WIRING AND ALL INEFFECT CONNECTIONS.
- J. GUARANTEE: COMPLETE ELECTRICAL SYSTEM INCLUDING ALL MATERIALS, EQUIPMENT AND LABOR SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR BEGINNING WITH DATE OF ACCEPTANCE OF BUILDING BY OWNER.
- K. EACH BIDDER SHALL, BEFORE SUBMITTING A PROPOSAL, VISIT AND EXAMINE THE SITE IN ACCORDANCE WITH DIVISION 1 TO SATISFY HIMSELF AS TO MATERIALS AND SCOPE OF THE NEW CONSTRUCTION AND ANY NECESSARY REPAIRS.
- L. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. CLAIMS MADE SUBSEQUENT TO THE EXAMINATION WILL BE CONSIDERED AS CLAIMS FOR LABOR, EQUIPMENT AND MATERIAL REQUIRED FOR DIFFICULTIES ENCOUNTER, WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE. WILL NOT BE RECOGNIZED.
- M. WORKMANSHIP: ALL INSTALLATIONS SHALL BE MADE IN A NEAT, CLEAN, WORKMANLIKE MANNER. UNSIGHTLY INSTALLATIONS SHALL BE REMOVED OR REWORKED AT NO ADDITIONAL EXPENSE TO THE OWNER.

SECTION 16121 - BASIC MATERIALS AND METHODS

- GENERAL:
- A. SECTION 16A APPLIES TO ALL WORKS HEREUNDER AND SHALL INCLUDE CONDUIT, BOXES, WIRE, WIRING DEVICES, LIGHTING FIXTURES AND RELATED MATERIALS.
2. CONDUIT:
- A. CONNECTIONS TO EQUIPMENT, WHICH SHALL BE MADE WITH THREE FEET FLEXIBLE LIQUID-TIGHT CONDUIT WITH LIQUID-TIGHT CONNECTORS.
- B. CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH SIX FEET OF FLEXIBLE CONDUIT FROM A JUNCTION BOX, LOCATE JUNCTION BOX TO PREVENT RELOCATION OF THE LIGHT FIXTURE.
- C. INTERMEDIATE GRADE CONDUIT WITH THREADED FITTING.
- D. SHALL BE PROVIDED IN SLAB-ON-GRADE, OUTSIDE BUILDING, BURIAL BELOW GRADE AND IN-WET LOCATIONS.
- E. ALL OTHER CONDUIT SHALL BE ELECTRIC METALLIC TUBING WITH COMPRESSION TYPE FITTINGS. EXCEPT EXTERIOR EXPLOSION CONDUIT SHALL BE RIGID GALVANIZED CONDUIT.
3. BOXES:
- A. CONCEALED BOXES SHALL BE 4-INCH SQUARE GALVANIZED STEEL WITH GALVANIZED EXTENSION RINGS, TOTAL DEPTH OF NOT LESS THAN 2-1/2 INCHES.
- B. SURFACE MOUNTED BOXES SHALL BE PRESSED GALVANIZED STEEL, UTILITY TYPE.
- C. GANGABLE SECTIONAL SWITCH BOXES ARE SPECIFICALLY NOT ALLOWED.
4. WIRE & CABLE (600V AND LESS):
- A. THE WIRE MEETING REQUIREMENTS BELOW SHALL BE SUITABLE FOR SECONDARY POWER AND LIGHT CIRCUITS AND CONTROL CIRCUITS WITHIN THE LIMITATIONS OF THESE SPECIFICATIONS.
- C. INSULATION WIRE NO. 8 AWG AND LARGER SHALL BE STRANDED.
- D. ALL WIRE SHALL BE BROUGHT TO THE JOB IN UNBOKEN PACKAGES, AND SHALL BEAR THE DATE OF MANUFACTURING AND SHALL NOT BE OLDER THAN TWELVE MONTHS.
- E. TYPE OF WIRE SHALL BE AS FOLLOWS:
1. UNLESS OTHERWISE SPECIFIED OR INDICATED OTHERWISE ON DRAWINGS, ALL #12 AND #10 WIRE SHALL BE THIN AND ALL WIRE #8 AND LARGER SHALL BE THIN-TWIST TYPE.
2. WIRING ADJUNCT SHALL BE HEAT-PRODUCING EQUIPMENT SHALL BE TYPE AVA.
3. NO WIRE SMALLER THAN #12 GAUGE SHALL BE USED, EXCEPT FOR SIGNAL OR CONTROL SYSTEMS OR WHERE OTHERWISE INDICATED.
4. WIRE SHALL BE COPPER, 600VOLT MINIMUM RATING, EXCEPT FOR SPECIAL SYSTEMS.
5. UNLESS NOTED OTHERWISE, ALL CONDUCTORS SHALL BE SOFT DRAWN COPPER CONFORMING TO THE LATEST ASTM SPECIFICATIONS AND THE LATEST REQUIREMENTS OF NEC, UNLESS OTHERWISE NOTED OR SPECIFIED, ALL INSULATION SHALL BE RATED 600VOLT.
6. ALL WIRE SHALL BE AS MANUFACTURED BY GENERAL CABLE CO., PHELPS DODGE, ANACONDA, OR A CABLE EQUIVALENT.
7. ALL WIRE SHALL BE INSTALLED IN CONDUIT AND COLOR-CODED, ALL WIRE SHALL BE 95% CONDUCTIVE COPPER, RATED FOR MAXIMUM OF 60 VOLTS.
7. CONNECTIONS: WIRE CONNECTORS FOR SIZED #10 AWG AND LESS SHALL BE "PRESS-IN-TYPE" IDEAL, "WAGO-CAPT", "38" STAKO, OR 3M "SCOTCHLOK" CONNECTORS FOR WIRE SIZE #8 AND LARGER SHALL BE TAB OR BURNDY METHODS USING HYDRAULIC PRESSES.
5. ELECTRIC TAPE SHALL BE JOHNS-MANVILLE "DUTCH-BRAND" 3M; "SCOTCH BRAND"; OR PLYMOUTH "SULPUNK" BRAND).
6. WALL SWITCHES SHALL BE AS FOLLOWS OR APPROVED EQUAL WITH COLOR AS DIRECTED BY ARCHITECT:
- A. 20A, SP. 1252/7TV, HUBBELL #1221.
- B. 20A; 3M, 1252/7TV, HUBBELL #1223.
- C. 20A, 4W, 1252/7TV, HUBBELL #1224.
- D. 20A, SP. 1252/7TV, PL PL 1221-PL - HUBBELL #1221-PL.
- E. 20A, SP. 1252/7TV, WEATHERPROOF - HUBBELL #1281/795.
- F. 20A, SP. 1252/7TV KEYED SWITCH, HUBBELL #1221-L.

- RECEPTACLES SHALL BE IVORY, EXCEPT BROWN SHALL BE INSTALLED TO MATCH FINISHES AND SHALL BE AS FOLLOWS OR APPROVED EQUAL. PROVIDE OTHER RECEPTACLES AS INDICATED ON THE DRAWINGS.
- A. 20A, 125V, DUPLEX - HUBBELL #5362 (I)
- B. 20A, 250V, 2W/0V - HUBBELL #5362 (I)
- C. 50A, 0V, 3W/0V - ARROW-HART #5700, BRYANT #9630R FR OR P & S #5550.
- D. GROUND FAULT (20A/125V) - HUBBELL #8F-5362. PROVIDE SPRING LOADED WEATHER-PROOF WHILE IN USE COVERS WHERE INDICATED.
- E. CLOCK AND SIGN HANGER - ARROW-HART #2508, BRYANT #2828-GS OR HUBBELL.
8. PLATES: PROVIDE FACEPLATES FOR ALL DEVICES INCLUDING WALL SWITCHES, RECEPTACLES, TELEPHONE OUTLETS AND ALL WALL OUTLETS. FACE PLATES SHALL BE SATIN FINISHED STAINLESS STEEL. IN ALL CASES PREPARE TO PROVIDE A WEATHER PROOF, OFFICES AND COMMERCIAL GRADE SMOOTH UNBREAKABLE PLASTIC IN LOBBY/DINING, COLOR TO MATCH DEVICES AND WALLS.
9. LIGHTING FIXTURES AND LAMPS SHALL BE FURNISHED BY OWNER THROUGH THE CONTRACTOR, AS SCHEDULED ON DRAWINGS AND CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES. ALL RECESSED LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED AS REQUIRED BY CODE.
10. LAMPS:
- A. CONTRACTOR SHALL FURNISH AND INSTALL ONE COMPLETE SET OF LAMPS FOR ALL LIGHTING FIXTURES PROVIDE LABEL IN EACH FIXTURE INDICATING THE TYPE OF LAMP CORRESPONDING WITH SCHEDULE ON DRAWING. SIZE SHALL BE WORKED "MAXIMUM WATTAGE".
- B. FLUORESCENT LAMPS SHALL BE STANDARD COOL WHITE, ENERGY EFFICIENT, MANUFACTURED BY GENERAL.
- C. ELECTRIC WATT MISER II UNLESS NOTED OTHERWISE.
- D. INCANDESCENT LAMPS SHALL BE INSIDE FROSTED WITH 2500 HOUR LAMP LIFE RATE 130 VOLTS.
11. FLUORESCENT BALLASTS SHALL BE ELECTRONIC, ENERGY EFFICIENT, MANUFACTURED BY GENERAL ELECTRIC, MAX-MISER II, CLASS "P" OR APPROVED EQUAL.
12. RACEWAY SYSTEM
- A. ALL WIRE SHALL BE INSTALLED IN A METAL RACEWAY AND SHALL BE CONCEALED WHERE POSSIBLE. WHERE NECESSARY TO EXPOSE THE WIRING THE RACEWAY SHALL BE INSTALLED AS UNCONSPICUOUSLY AS POSSIBLE AND IN STRAIGHT LINES WITH 90-DEGREE BENDS, PARALLEL WITH BUILDING LINES. SQUARE RACEWAYS, REAM SMOOTH AND HARD AND EIGHT PLATE ENDS OF RACEWAYS FURRING CONSTRUCTION AND SWAG CLEAN BEFORE PULLING WIRE OR CABLE. SUPPORT RACEWAYS FROM BUILDING STRUCTURE MEMBERS ONLY WITH APPROVED FASTENERS DESIGNED FOR THE PURPOSE.
- B. RACEWAY SYSTEM SHALL BE INSTALLED TO MAINTAIN THE MAXIMUM HEADROOM WITH REQUIRED SUPPORTS FOR THE LOAD. ALL ANCHORS, STRAPS AND CLIPS SHALL BE THE TYPE DESIGNED FOR THE PURPOSE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. COMMON SUPPORTS MAY BE USED FOR MECHANICAL AND ELECTRICAL EQUIPMENT BY COORDINATING THE WORK WITH ALL TRADES.
- C. ALL ELECTRICAL BOXES SHALL BE SUPPORTED FROM BUILDING STRUCTURAL MEMBERS INDEPENDENTLY OF THE CONDUIT RACEWAYS, MECHANICAL SYSTEMS OR SUSPENDED CEILING SUPPORTS. RECESSED BOXES SHALL BE FLUSH WITH SURROUNDING SURFACE. ALL BOXES AND CABINETS SHALL BE PROTECTED DURING CONSTRUCTION AND WHERE TAPE IS CLEANED BEFORE PULLING WIRE AND INSTALLING DEVICES.
- D. SIZE OF CONDUIT SHALL NOT BE LESS THAN 3/4" AND NOT LESS THAN REQUIRED BY THE NATIONAL ELECTRICAL CODE.
13. WIRE: USE ONLY APPROVED TYPE WIRE-PULLING LUBRICANTS FOR WIRE PULLS. SPLICE WIRE ONLY IN ACCESSIBLE AND UL APPROVED JUNCTION BOXES. MAKE WIRE JOINTS MECHANICALLY STRONG. WHERE POLYETHYLENE CABLE AND OTHER TAPE IS USED, WRAP EACH JOINT TO THE THICKNESS OF THE ORIGINAL INSULATION. CLEAN AND POLISH METALLIC SURFACES BEFORE INSTALLING CONDUCTORS. APPLY PRESSURE TYPE LUGS ON STRANDED CONDUCTORS CONNECTED TO SCREW OR BOLT TYPE CONNECTIONS.
14. WIRING DEVICES: UNLESS NOTED OTHERWISE, RECEPTACLES SHALL BE INSTALLED 18" ABOVE THE FINISHED FLOOR. SWITCHES SHALL BE 48" AND CLOCK HANGERS 8'-0". RECEPTACLES NOTED ABOVE WORK COUNTERS AND CABINETS (AC) SHALL BE MOUNTED ABOVE THE BACKSPLASH WEATHER-PROOF RECEPTACLE COVERS SHALL BE RATHER PROOF WEATHER-PROOF. WHERE REQUIRED, BONDING JUMPER BETWEEN THE BOX AND ALL RECEPTACLES.
15. EQUIPMENT CONNECTIONS: PROVIDE ALL NECESSARY MOTOR STARTER DEVICES, LIGHTING INS VICES, WALL PLATES, ETC. SHALL BE SWITCHES, CONTROLS, CONDUIT, BOXES, WIRE, ETC. AND CONNECT COMPLETE TO EACH PIECE OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS INDICATED ON THE DRAWINGS. WHERE EQUIPMENT RATING DIFFERENT FROM THAT INDICATED, CONSULT OWNER CONSULT WITH EQUIPMENT SUPPLIER TO DETERMINE ROUGH-IN REQUIREMENTS. WHERE EQUIPMENT IS NOTED AS FUTURE, TERMINATE CIRCUIT IN JUNCTION BOX AND INSTALL SPRING WIRE NUTS ON THE ENDS OF THE CONDUCTORS.
16. LIGHTING FIXTURES:
- A. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND RELATED ITEMS TO PROPERLY INSTALL THE LIGHTING FIXTURES. FIXTURES SUPPORTED IN EXPOSED OR CONCEALED GRID CEILINGS SHALL BE PROVIDED WITH CLIPS. FIXTURES MOUNTED IN OR ON TILE CEILING SHALL BE MOUNTED WITH T-CLIPS. EXPOSED LIGHTING FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURAL MEMBERS EXCEPT FOR EXPOSED GRID CEILINGS WHERE A CEILING SUPPORTING WIRE SHALL BE PROVIDED AT EACH FIXTURE CORNER. DO NOT USE WELDER GRID CEILING SUPPORT WIRES FOR STRAPPING OR SUPPORT.
17. CLEANING: ALL EQUIPMENT INCLUDING PANELBOARDS, SWITCHES, WIRING DEVICES, LIGHTING FIXTURES, WALL PLATES, ETC. SHALL BE FREE OF CORROSION, DIRT, PAINT SPLATTER OR DAMAGE OF ANY SORT AT FINAL ACCEPTANCE OF THE WORK. CONTRACTOR SHALL CLEAN, REPAIR OR REPLACE SAME AS INSTRUCTED BY THE OWNER BEFORE FINAL PAYMENT.
18. POWER AND LIGHTING PANELS:

19. LIGHTING CONTROLS: FURNISH AS NOTED ON ELECTRICAL PLANS. UL LISTED.
20. GROUNDING:
- A. EQUIPMENT GROUNDING
1. THE EQUIPMENT GROUNDING SYSTEM SHALL BE SUCH THAT ALL METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT AND OTHER CONDUCTIVE ITEMS ASSOCIATED WITH ELECTRICAL CIRCUITS OPERATE CONTINUOUSLY AT GROUND POTENTIAL AND PROVIDE A LOW IMPEDANCE PATH FOR POSSIBLE GROUND FAULT CURRENTS.
2. WIREWAYS, SWITCHGEAR, PANELBOARDS AND MOTOR CONTROL PANELS SHALL BE PROVIDED WITH AN EQUIPMENT GROUND BUS (INCLUDING LUGS OR SCREW TERMINALS) SECURELY BONDED TO THE ENCLOSURE, JUNCTION BOXES AND OTHER ENCLOSURES (SIZES ABOVE 5"X6" SHALL UTILIZE AN EQUIPMENT GROUND BUS OR LUGS AS REQUIRED TO SECURELY BOND THE EQUIPMENT GROUND CONDUCTOR TO THE ENCLOSURE.
3. ALL BRANCH CIRCUITS FOR POWER AND LIGHT SHALL INCLUDE A GREEN INSULATED GROUNDING CONDUCTOR. THE EQUIPMENT GROUND CONDUCTOR SHALL BE ELECTRICAL AND MECHANICALLY CONTINUOUS FROM THE SOURCE OF SUPPLY TO THE EQUIPMENT TO BE GROUNDED.
4. LIGHTING FIXTURES SHALL BE SECURELY CONNECTED TO THE EQUIPMENT GROUND CONDUCTOR.
5. MOTORS SHALL BE CONNECTED TO THE EQUIPMENT GROUND CONDUCTOR WITH A CONDUIT GROUNDING BUSHING AND WITH A BOLTED SOLDERLESS LUG CONNECTION ON THE PLATED FRAME, BOLTS, NUTS AND WASHERS SHALL BE BRONZE, CADMIUM FINED STEEL, OR OTHER NON-CORROSIVE MATERIAL.
6. ALL CONDUIT SHALL BE CONNECTED TO THE EQUIPMENT GROUND BUS BY MEANS OF AN ELECTRICAL BUSHING.
7. E.C. SHALL COORDINATE WITH CASH REGISTER SYSTEM SUPPLIER TO CLARIFY ANY GROUNDING AND/OR WIRING REQUIREMENTS.
- B. SYSTEM GROUND
1. THE SERVICE NEUTRAL SHALL BE SOLIDLY BONDED TO THE GROUNDING ELECTRODE AT THE SERVICE, WATERLINE, BUILDING STEEL AND FOOTER REBAR. IN COMPLIANCE WITH N.E.C. ARTICLE 250.
21. INSTALLATION:
- A. ALL GROUNDING CONDUCTORS SHALL BE SIZED AS PER THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
- B. GROUND RODS: GROUND RODS SHALL BE THE COPPER CLAD STEEL TYPE AND SHALL BE A MINIMUM OF 8 FEET IN LENGTH AND 1/2 INCH IN DIAMETER. GROUND RODS SHALL BE AS MANUFACTURED BY COPPERWELD STEEL COMPANY, OR AN ACCEPTABLE EQUIVALENT.
- C. GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED COPPER. EQUIPMENT GROUND WIRE SHALL BE THW INSULATED AND SHALL BE GREEN IN COLOR.
- D. CONNECTIONS TO WATER SERVICE SHALL BE MADE WITH SUBSTANTIAL GROUNDING COPING OF LUG CONNECTION AHEAD OF THE BUILDING METER OR CUTOFF VALVE. VERIFY THE EXISTENCE AND BURIAL OF 10" OF COPPER WATER PIPE AHEAD OF AND AFTER THE WATER METER. OTHERWISE, PROVIDE UFER GROUND PER NEC.
- E. CONNECTIONS TO GROUND RODS SHALL BE MADE BY A EXOTHERMAL WELD.
- F. FROTHING CABLES EMBEDDED IN THE FLOOR SHALL BE MADE IN RIGID CONDUIT.
- G. GROUND RODS SHALL BE DRIVEN FULL LENGTH DIAGONALLY INTO THE EARTH AND HAVE A ONE (1) FOOT MINIMUM COVERAGE.
- H. ALL CONDUCTOR CONNECTIONS SHALL BE MADE UP TIGHT TO PROVIDE CONTINUITY OF METALLIC GROUND.
- I. GROUND WIRES NOT IN CONDUIT SHALL BE SUPPORTED EVERY FIVE (5) FEET.
22. TEST:
- A. THE CONTRACTOR SHALL RUN A GROUND RESISTANCE TEST AND IF THE RESISTANCE TO GROUND IS GREATER THAN 25 OHMS, ADDITIONAL GROUND RODS SHALL BE INSTALLED. THE TEST SHALL NOT BE MADE WITHIN FIVE (5) DAYS AFTER A RAIN.
- B. THE CONTRACTOR SHALL PROVIDE OWNER WITH A COPY OF THE TEST PROCEDURE AND RESULTS OF THE TEST.
- C. THE GROUND TEST SHALL BE MEASURED IN THE PRESENCE OF AN AUTHORIZED REPRESENTATIVE OF THE ARCHITECT. NO EQUIPMENT SHALL BE OPERATED UNTIL GROUND POTENTIAL IS VERIFIED.
23. WORKMANSHIP:
- A. ALL WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THEIR TRADES AND SHALL BE TYPICAL OF THE BEST TRADE PRACTICES.

SECTION 16163 - SERVICE AND DISTRIBUTION

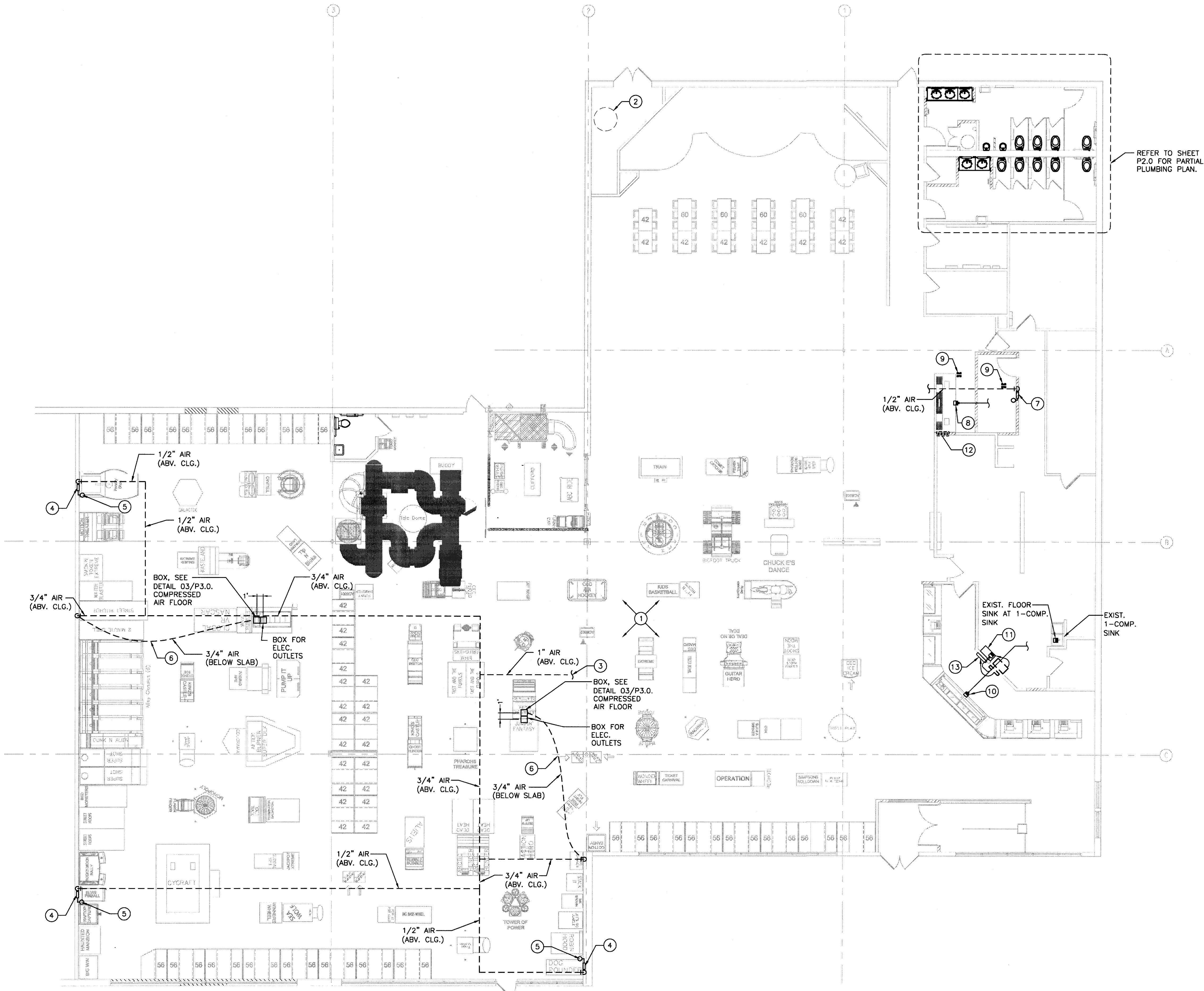
1. GENERAL
- A. SCOPE: SECTION APPLIES TO ALL WORKS HEREUNDER AND SHALL INCLUDE SERVICE, METERING AND DISTRIBUTION.
- B. SERVICE: THE ELECTRICAL DISTRIBUTION IS SHOWN AS INDICATED ON THE ELECTRICAL PLANS. CONTRACTOR SHALL VERIFY SERVICE VOLTAGE WITH UTILITY COMPANY AND SHALL MAKE NECESSARY REVISIONS AND MODIFICATIONS REQUIRED. ELECTRICAL CONTRACTOR IS TO REFER TO THE POWER RISER DIAGRAM FOR FURTHER INFORMATION.
- C. METERING: CONTRACTOR SHALL PROVIDE MODIFICATIONS NECESSARY METERING FACILITIES INCLUDING METER SOCKET, CURRENT TRANSFORMER CABINET, CONDUIT AND OTHER WORK FOR METERING REQUIRED BY THE UTILITY COMPANY.
2. MATERIALS
- A. DISCONNECT SWITCHES: SHALL BE (HEAVY-DUTY TYPE, NEMA HD) FUSED UNLESS NOTED OTHERWISE, DESIGNED TO ACCEPT ONLY REJECTION TYPE FUSES AND OPERATOR INTERLOCKED WITH THE DOOR IN THE "OFF" POSITION. SWITCHES SHALL BE MANUFACTURED BY GENERAL ELECTRIC, SQUARE D OR CUTLER-HAMMER.
- B. FUSES: SHALL BE CURRENT LIMITING WITH 200,000 AMPERES INTERRUPTING CAPACITY. ULTC CLASS RK1 AND SHALL BE DUAL ELEMENT, TIME DELAY, CLASS R REJECTION TYPE. ONE SET OF SPARE FUSES SHALL BE PROVIDED FOR EACH SIZE AND MOUNTED IN "SPARE FUSE CABINET" LOCATED AT THE SERVICE ENTRANCE. FUSE UNIT AND FUSE CABINET SHALL BE MANUFACTURED BY BUSSMAN OR SHAWMUT.

- EXECUTION
- A. DISCONNECT SWITCHES SHALL BE INSTALLED 4'-0" ABOVE FINISHED FLOOR. ALL CABINETS SHALL BE VACUUM CLEANED BEFORE PULLING WIRE
- 4. INSTALLATION OF EQUIPMENT AND FIXTURES
- A. INSTALL ALL EQUIPMENT AND FIXTURES FORMING PART OF THE WORK OF THIS SECTION IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL PERTINENT CODES AND REGULATIONS. MAKE ALL FINAL CONNECTIONS TO BAR AND KITCHEN EQUIPMENT.
- 5. LAMPING
- A. LAMP ALL FIXTURES WITH LAMPS OF THE DESIGNED RATING AND PATTERN.
- 6. TESTING
- A. GENERAL: UPON COMPLETION OF THIS PORTION AT THE WORK, FURNISH ALL EQUIPMENT AND PERSONNEL AND CONDUCT ALL TEST REQUIRED TO SECURE APPROVAL OF THE INSTALLATION FROM ALL AGENCIES HAVING JURISDICTION.
- B. CRITERIA:
 - 1. ALL SYSTEMS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUND. SHALL BE FREE FROM MECHANICAL AND ELECTRICAL DEFECTS AND SHALL SHOW AN INSULATION RESISTANCE BETWEEN PHASE CONDUCTORS AND GROUND OF NOT LESS THAN THAT REQUIRED BY THE NATIONAL ELECTRICAL CODE.
 - 2. ALL SYSTEMS SHALL SHOW PROPER NEUTRAL CONNECTIONS.
- 7. CLEANING UP
- A. ALL EQUIPMENT AND EXPOSED SURFACES SHALL BE LEFT SMOOTH AND CLEAN. ALL PLATE WORK SHALL BE POLISHED AND THE ENTIRE PREMISES SHALL BE CLEANED OF UNUSED MATERIALS, RUBBISH, DEBRIS AND GREASE SPOTS.

[illegible]

PLUMBING SYMBOLS			
	AIR LINE	RZP	REDUCED PRESSURE ZONE
	THREADED BALL VALVE	BFP	BACKFLOW PREVENTER
	FLOOR BOX	PRV	PRESSURE REDUCING VALVE
	P.O.C. POINT OF CONNECTION	SOV	SHUTOFF VALVE
	A.F.F. ABOVE FINISHED FLOOR		
	B.F.F. BELOW FINISHED FLOOR		

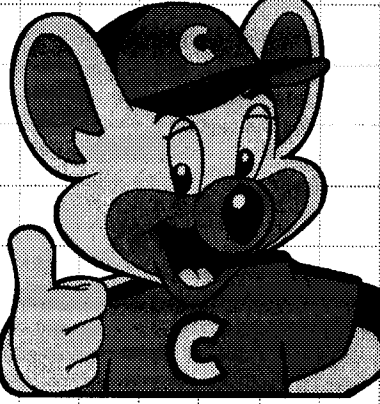
- PLUMBING KEYED NOTES**
- CONTRACTOR SHALL REMOVE EXISTING VALVES, AIR PIPING, FLOOR BOXES, ETC. NOT SCHEDULED TO BE REUSED AND DISPOSE OF AS PER CHUCK E. CHEESE'S CONSTRUCTION MANAGER'S DIRECTION. FIELD VERIFY LOCATION.
 - EXISTING AIR COMPRESSOR TO REMAIN AND BE REUSED. FIELD VERIFY LOCATION AND ADJUST ACCORDINGLY.
 - EXTEND NEW 1" COPPER AIR LINE AND CONNECT TO EXISTING AIR LINE FROM COMPRESSOR. FIELD VERIFY SIZE AND LOCATION.
 - 3/4" COPPER AIR LINE DOWN TO GAMES TO TERMINATE W/ 1/2" THREADED BALL VALVE LOCATED AT 12" A.F.F. PROVIDE RECESSED WALL BOX WITH BOTH MALE AND FEMALE CONNECTIONS. SEE DETAIL 11/P3.0. INSTALL ON TENANT'S SIDE OF DEMISING WALL FIBERGLASS INSULATION.
 - 1/2" COPPER AIR LINE TO 1/2" BALL VALVE, TO BE INSTALLED 12" A.F.F. AND 1'-8" OUT FROM BACK WALL. SEE DETAIL 11/P3.0.
 - 3/4" COPPER PIPING TO "CRYLON" 12" X 12" FLOOR BOX. INSTALL BELOW FOUNDATION AND TERMINATE W/ 1/2" BALL VALVE. REFER DETAIL 10/P3.0. (TYPICAL OF 2)
 - 1/2" COPPER AIR LINE TO 1/2" BALL VALVE FOR MERCHANDISE ROOM. EXTEND AND CONNECT TO EXISTING AIR LINE AS REQUIRED. FIELD VERIFY LOCATION. SEE DETAIL 11/P3.0.
 - NEW FLOOR SINK FOR DRAINAGE FROM NEW BEVERAGE COUNTER PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. PROVIDE NEW 3" WASTE AND NEW 2" VENT AS REQUIRED. EXTEND AND CONNECT TO NEAREST EXISTING PIPING. FIELD VERIFY EXACT SIZES AND LOCATION.
 - EXISTING FLOOR SINK TO BE REMOVED. FIELD VERIFY EXACT LOCATION. DISPOSE OF AS PER CHUCK E. CHEESE CONSTRUCTION MANAGER'S DIRECTION. CAP EXISTING VENT PIPING ABOVE CEILING OR AT WALL. CAP EXISTING WASTE PIPING AT WALL BELOW FLOOR. PATCH WALL AND/OR FLOOR, CEILING TO "LIKE NEW" CONDITION. (TOTAL OF 3)
 - NEW FLOOR SINK FOR DRAINAGE FROM NEW SALAD BAR PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. PROVIDE NEW 3" SANITARY AND NEW 2" VENT AS REQUIRED. EXTEND AND CONNECT TO NEAREST EXISTING PIPING. FIELD VERIFY EXACT SIZES AND LOCATION.
 - PROVIDE NEW FLOOR SINK FOR RELOCATED BEER TAP AT 3'-0" AWAY FROM ORIGINAL BEER TAP LOCATION. (IF EXISTING DRAIN METHOD IS ALTERED BY CONSTRUCTION.) IF NECESSARY - NEW FLOOR SINK SHALL BE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. WITH NEW 3" SANITARY AND 2" VENT AS REQUIRED. EXTEND AND CONNECT TO NEAREST EXISTING PIPING. FIELD VERIFY EXACT SIZES AND LOCATION. POSITION PER ACTUAL EQUIPMENT LAYOUT. PROVIDE ONLY IF EXISTING INSTALLATION HAS DRAIN.
 - PROVIDE (4) 3" PVC IN WALL DOWN TO 6" ABOVE FLOOR. PROVIDE A SWEEP ELBOW AT END OF PIPE AND PROJECT OUT OF WALL INTO BEVERAGE CABINET. COORDINATE WITH SODA VENDOR.
 - EXISTING BEER TAP TO BE RELOCATED AS SHOWN. REWORK/PROVIDE NEW PIPING AS REQUIRED.



01 PLUMBING FLOOR PLAN
Scale: 1/8"=1'-0"



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STORE# 939

PROJECT NO.	DATE	DESCRIPTION
101301	12/06/10	PLUMBING FLOOR PLAN

PROJECT NO: 101301
 DRAWN BY: JCC
 CHECKED BY: CBB
 ISSUE DATE: 12/06/10

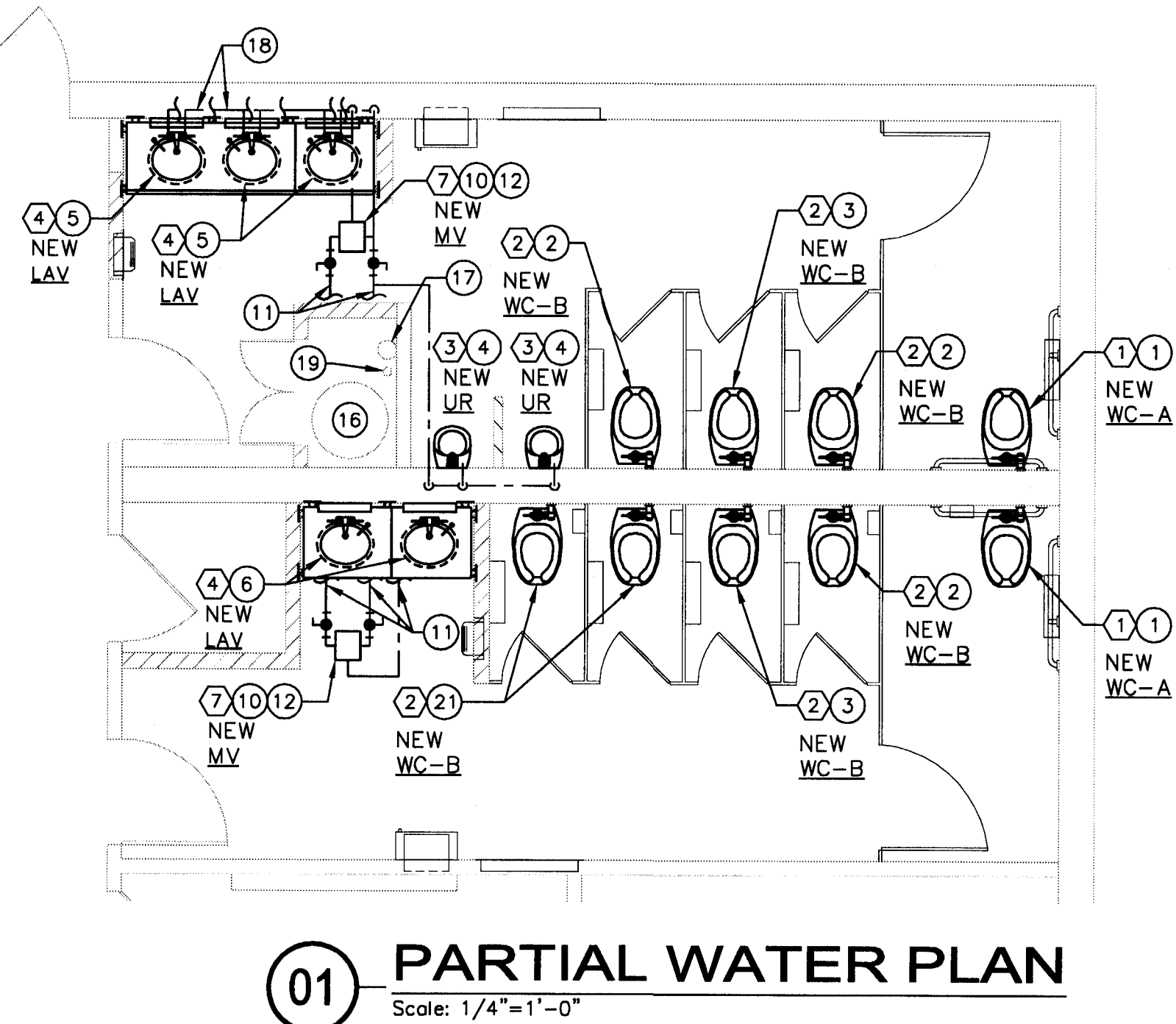
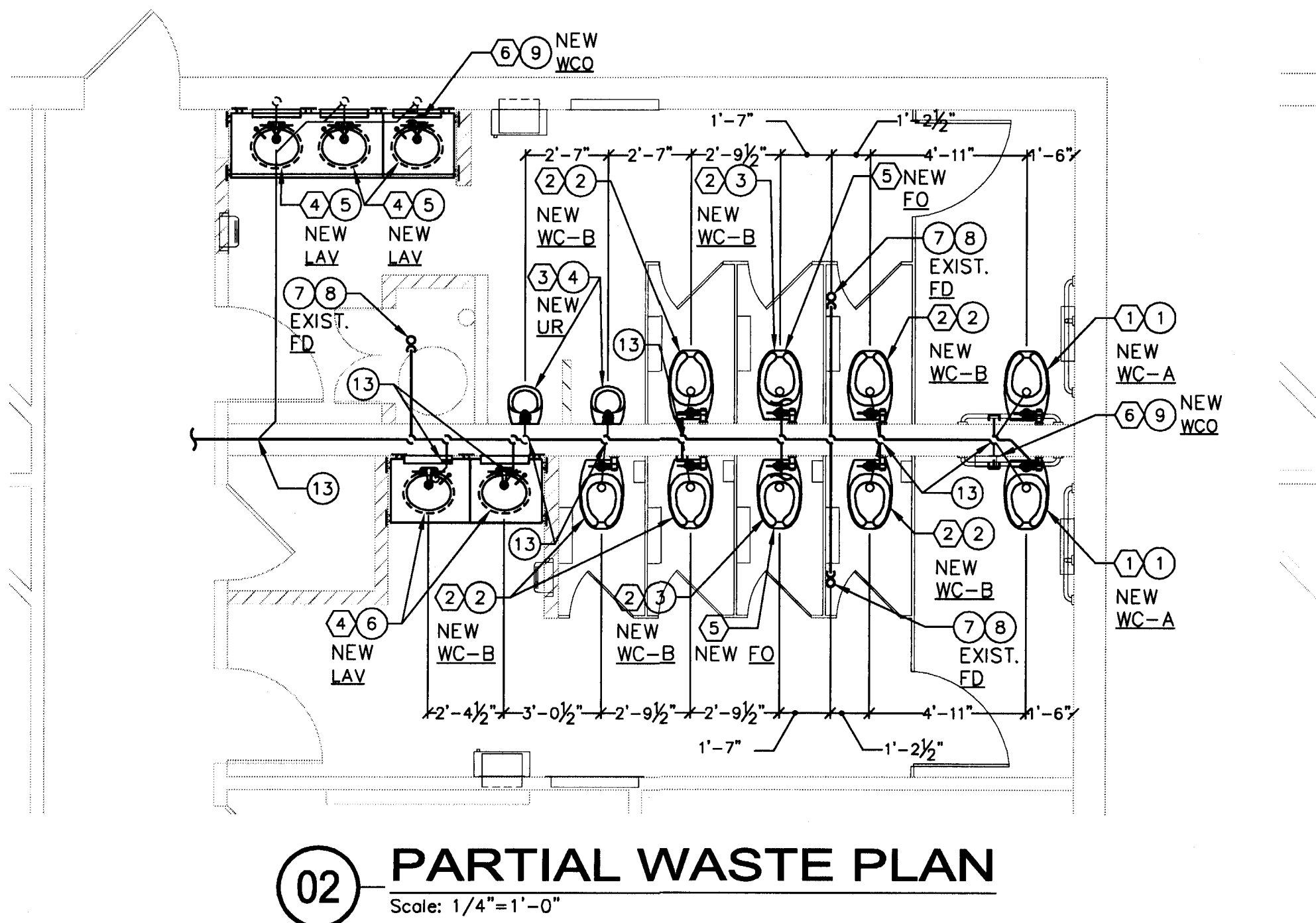
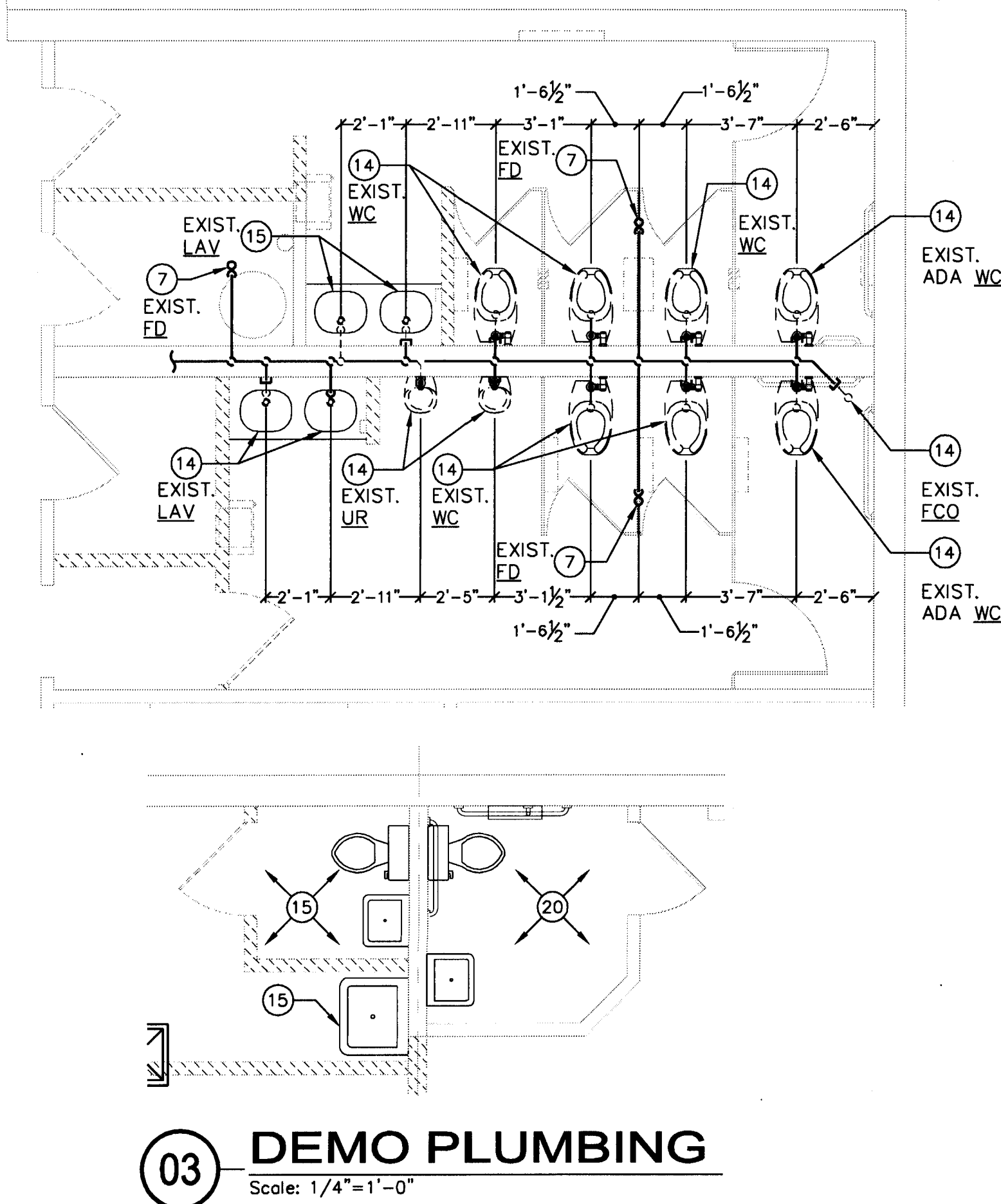
P1.0

PLUMBING FIXTURE SCHEDULE ◯														
FIXTURE DATA					CONNECTION DATA							SAN. F.U.	WATER F.U.	DESCRIPTION
PLAN TAG	FIXTURE	QTY.	MFG.	MODEL NO.	SOIL SIZE	VENT SIZE	TRAP	INDIRECT WASTE	COLD	HOT	TEMP.			
①	WATER CLOSET (WC-A) (HC)	2	AMERICAN STANDARD	3043.102.020	3"	2"	---	---	1"	---	---	4.0	10.0	AMERICAN STANDARD "MADERRA", FLUSH VALVE: SLOAN 111, 1.6 GALLONS PER FLUSH, SEAT: CHURCH 9500C, WHITE VITREOUS CHINA, ELONGATED, SIPHON JET, FLOOR MOUNTED, 17" TALL, FLUSHVALVE HANDLE SHALL BE INSTALLED ON ACCESSIBLE SIDE OF STALL
②	WATER CLOSET (WC-B)	7	AMERICAN STANDARD	2234.015	3"	2"	---	---	1"	---	---	4.0	10.0	AMERICAN STANDARD "MADERRA", FLUSH VALVE: SLOAN 111, 1.6 GALLONS PER FLUSH, SEAT: CHURCH 9500C, WHITE VITREOUS CHINA, ELONGATED, SIPHON JET, FLOOR MOUNTED, 14-1/2" TALL
③	URINAL (UR)	2	TOTO USA	UT-104	2"	2"	---	---	3/4"	---	---			TOTO USA, SLOAN MANUAL FLUSH VALVE MODEL #186-1.0, 1 GALLON PER FLUSH, WALL HUNG, CARRIER: PROVIDE HANGING ACCESSORIES WITH URINAL, ADA, WHITE VITREOUS CHINA WASHOUT, INSTALL AT (HC) HEIGHT WITH F.V. HANDLE ON ACCESSIBLE SIDE
④	LAVATORY (LAV)	5	SPECIFIED BY C.E.C.	----	1-1/2"	1-1/2"	1-1/4"	----	1/2"	---	1/2"			INTERGRAL SINK SPECIFIED BY C.E.C. WITH CHROME PLATED BRASS FAUCET, SPOUT, DRAIN ASSEMBLY, STRAINER, AND TAILPIECE. LAVATORY: INTERGRAL MOUNT (ANTIQUE WHITE) WITH CENTER FAUCET HOLE, FAUCET WITH 1-1/4" TAIL PIECE, 17 GA. "P" TRAP, SEE DETAIL #18 ON SHEET P3.2 AND COORDINATE. PROVIDE WITH MIXING VALVE MV-1. FAUCET: MOEN #CAB210 FAUCET WITH 4" CENTERSET/LEVER STYLE HANDLES, 2.2 GPM MAX. AERATOR, BRASS CONSTRUCTION WITH CHROME FINISH DRAIN ASSEMBLY: D-ASSY MODEL #269-1231 COVER DRAIN AND WATER PIPING WITH TRU-BRO LAV GUARD.
⑤	FLANGE OFFSET (EQ)	2	ZURN	----	---	---	---	---	1/2"	---	---	---	---	PROVIDE ZURN OFFSET CLOSET FLANGE W/ METAL ADJUSTIBLE RING MODEL #4831, ZURN TORQUE SET OFF-SET CLOSET FLANGE MODEL #CF2983-C14, OR EQUAL.
⑥	WALL CLEANOUT (WCO)	2	PROFLO	PFC51U	---	---	---	---	---	---	---	---	---	STAINLESS STEEL WALL CLEANOUT WITH ACCESS COVER WITH SCREW
⑦	MIXING VALVE (MV)	2	WATTS	USG-B-SC	---	---	---	---	3/8"	3/8"	3/8"	---	---	SET AT 110°F, SATIN CHROME FINISH, INSTALL ABOVE CEILING AT FIXTURE, ASSE 1070 LISTED
GENERAL NOTES:														
1. FIXTURE MANUFACTURER SHALL BE TO THOSE LISTED UNLESS AN ALTERNATE IS APPROVED BY OWNER. 2. PROVIDE ALL CARRIERS AND SUPPORT MATERIALS REQUIRED FOR A SOLID, SECURE INSTALLATION. 3. PROVIDE ALL DRAIN COVERS, ESCUTCHEONS, AND MISCELLANEOUS TRIM ITEMS FOR A NEAT APPEARANCE. 4. ALL MOUNTED HEIGHTS SHALL BE VERIFIED WITH THE ELEVATIONS SHOWN ON THE ARCHITECTURAL PLANS. 5. ALL SUPPLIES SHALL BE CHROME PLATED. 6. COVER ALL DRAINS AND WATER PIPING UNDER SINKS, LAVATORIES AND COUNTERS DESIGNATED FOR USE BY THE HANDICAP WITH MOLDED CLOSED CELL VINYL EQUAL TO TRUBRO LAV-GUARD.														

PLUMBING KEYED NOTES ◯	
①	NEW ADA FLUSH VALVE WATER CLOSET. (WC-A) (TYPICAL OF 2) REWORK EXISTING DOMESTIC WATER PIPING FROM AS REQUIRED. PROVIDE NEW WASTE PIPING AND CONNECT TO EXISTING WASTE PIPING AS REQUIRED. FIELD VERIFY LOCATION. REFER TO PLUMBING FIXTURE SCHEDULE FOR INFORMATION.
②	NEW FLUSH VALVE TYPE WATER CLOSET. (WC-B) (TYPICAL OF 3) REWORK EXISTING DOMESTIC WATER PIPING FROM AS REQUIRED. PROVIDE NEW WASTE PIPING AND CONNECT TO EXISTING WASTE PIPING AS REQUIRED. FIELD VERIFY LOCATION. REFER TO PLUMBING FIXTURE SCHEDULE FOR INFORMATION.
③	NEW FLUSH VALVE TYPE WATER CLOSET. (WC-B) (TYPICAL OF 2) REWORK EXISTING DOMESTIC WATER PIPING FROM AS REQUIRED. PROVIDE NEW CLOSET OFFSET FLANGE AND CONNECT TO EXISTING WASTE PIPING AS REQUIRED. FIELD VERIFY LOCATION. REFER TO PLUMBING FIXTURE SCHEDULE FOR INFORMATION.
④	NEW URINAL. (UR) (TYPICAL OF 2) PROVIDE NEW DOMESTIC WATER, WASTE, AND VENT PIPING AS REQUIRED. FIELD VERIFY LOCATION. REFER TO PLUMBING FIXTURE SCHEDULE FOR INFORMATION.
⑤	NEW COUNTER MOUNTED LAVATORY. (LAV) (TYPICAL OF 3) PROVIDE NEW DOMESTIC WATER, WASTE, AND VENT PIPING AS REQUIRED. FIELD VERIFY LOCATION. REFER TO PLUMBING FIXTURE SCHEDULE FOR INFORMATION.
⑥	NEW COUNTER MOUNTED LAVATORY. (LAV) (TYPICAL OF 2) CONNECT TO EXISTING DOMESTIC WATER AS REQUIRED. PROVIDE NEW WASTE PIPING AS REQUIRED AND CONNECT TO EXISTING. FIELD VERIFY LOCATION. REFER TO PLUMBING FIXTURE SCHEDULE FOR INFORMATION.
⑦	EXISTING FLOOR DRAIN TO REMAIN AND BE REUSED. PROVIDE GENERAL MAINTENANCE AS REQUIRED. FIELD VERIFY LOCATION. (TYPICAL OF 3)
⑧	CONTRACTOR SHALL VERIFY AND MAINTAIN ANY TRAP PRIMER FOR TOILET ROOM FLOOR DRAIN - REWORK AS REQUIRED BY NEW CONSTRUCTION.
⑨	NEW WALL CLEANOUT. (WCO) FIELD VERIFY LOCATION. REFER TO PLUMBING FIXTURE SCHEDULE FOR INFORMATION.
⑩	NEW MIXING VALVE. (MV) (TYPICAL OF 2) VERIFY TEMPERED WATER PIPING FOR LAVATORIES IF NONE EXISTS PROVIDE AND INSTALL NEW MIXING VALVE ABOVE EXISTING LAY-IN CEILING. PROVIDE NEW DOMESTIC WATER PIPING AS REQUIRED. PROVIDE ONE PER RESTROOM. MAXIMUM OF THREE LAVATORIES PER MIXING VALVE. FIELD VERIFY LOCATION. REFER TO PLUMBING FIXTURE SCHEDULE FOR INFORMATION.
⑪	EXTEND NEW DOMESTIC WATER PIPING AND CONNECT TO EXISTING WATER PIPING FROM MAIN/WATER HEATER CLOSET AS REQUIRED. FIELD VERIFY EXACT SIZE AND LOCATION.
⑫	INSTALL SHUTOFF VALVES ON HOT AND COLD WATER SUPPLY LINES TO MIXING VALVES ABOVE LAY-IN CEILING.
⑬	EXTEND AND CONNECT NEW SANITARY PIPING TO EXISTING 4" SANITARY LINE. FIELD VERIFY EXACT SIZE AND LOCATION.
⑭	EXISTING PLUMBING FIXTURES TO BE REMOVED. FIELD VERIFY EXACT LOCATION. DISPOSE OF AS PER CHUCK E. CHEESE CONSTRUCTION MANAGER'S DIRECTION. CAP EXISTING SANITARY PIPING AT WALL OR BELOW FLOOR. PATCH WALL AND/OR FLOOR, CEILING TO "LIKE NEW" CONDITION.
⑮	EXISTING PLUMBING FIXTURES TO BE REMOVED. FIELD VERIFY EXACT LOCATION. DISPOSE OF AS PER CHUCK E. CHEESE CONSTRUCTION MANAGER'S DIRECTION. CAP EXISTING VENT, C.W. & H.W. LINES ABOVE CEILING OR AT WALL. CAP EXISTING SANITARY PIPING AT WALL BELOW FLOOR. PATCH WALL AND/OR FLOOR, CEILING TO "LIKE NEW" CONDITION.
⑯	EXISTING A.O. SMITH GAS FIRED, NATURALLY VENTED WATER HEATER MODEL #BT-80-230 (SERIAL #M098-0730678-230) WITH 74.5 GALLON CAPACITY AND 75,000 BTU/HR. INPUT SHOWN FOR REFERENCE.
⑰	EXISTING 2" WATER SERVICE MAIN WITH WATTS DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTOR MODEL #007 M1 UP THRU FLOOR SHOWN FOR REFERENCE.
⑱	NEW WATER PIPING SHALL BE INSTALLED ON WARM SIDE OF BUILDING INSULATION.
⑲	EXISTING GAS LINE DOWN FROM ROOF SHOWN FOR REFERENCE.
⑳	EXISTING UNISEX TOILET ROOM PLUMBING FIXTURES LOCATED IN DINING AREA TO REMAIN. FIELD VERIFY LOCATION.
㉑	NEW FLUSH VALVE TYPE WATER CLOSET. (WC-B) (TYPICAL OF 2) PROVIDE NEW DOMESTIC WATER, WASTE, AND VENT PIPING AS REQUIRED. FIELD VERIFY LOCATION. REFER TO PLUMBING FIXTURE SCHEDULE FOR INFORMATION.

PLUMBING SYMBOLS			
— SAN. —	SANITARY SEWER LINE	C.W.	COLD WATER
— GW —	GREASE WASTE LINE	H.W.	HOT WATER
— V —	VENT LINE	T.W.	TEMPERED WATER
— GAS —	GAS LINE	F.D.	FLOOR DRAIN
— C.W. —	COLD WATER LINE	T.P.R.V.	TEMPERATURE PRESSURE RELIEF VALVE
— H.W. —	HOT WATER LINE	P.O.C.	POINT OF CONNECTION
— T.W. —	TEMPERED WATER LINE	LAV.	LAVATORY
— F.D. —	FLOOR DRAIN	UR.	URINAL
— F.V. —	FLOOR VALVE	W.C.	WATER CLOSET
— S.O.V. —	SHUT-OFF VALVE	A.F.F.	ABOVE FINISHED FLOOR
— B.F.P. —	BACKFLOW PREVENTER	B.F.F.	BELOW FINISHED FLOOR
— V.T.R. —	VENT THRU ROOF	F.C.O.	FLOOR CLEAN OUT
— C.I. —	CAST IRON	W.C.O.	WALL CLEAN OUT

PLUMBING GENERAL NOTES	
1.	VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING BEFORE COMMENCEMENT OF WORK, AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2.	OBTAIN EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES FROM ARCHITECTURAL DRAWINGS. PROVIDE WALL BACKING FOR ALL WALL MOUNTED PLUMBING FIXTURES AND ACCESSORIES.
3.	INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. NO WATER OR DRAIN LINES PERMITTED OVER OR UNDER ELECTRICAL PANELS. INSURE THAT ALL WATER LINES INSIDE WALLS ARE ADEQUATELY SECURED.
4.	PROVIDE FAUCETS UNLESS OTHERWISE NOTED. TRAPS, STOPS, GATE VALVES, WATER HAMMER ARRESTERS, WALL CLEANOUTS, CLEANOUT COVERS, FLEX CONNECTIONS, SHUT-OFF VALVES AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY INSTALLED & CONNECTED PLUMBING SYSTEM.
5.	RECORD ON AS-BUILT DRAWINGS, ALL SIZES, LOCATIONS, INVERTS AND MATERIALS OF EXISTING PIPES THAT ARE ENCOUNTERED AND NEW PIPES INSTALLED DURING THE COURSE OF THE PROJECT DELIVER AS-BUILTS TO THE CONSTRUCTION MANAGER AT THE END OF THE PROJECT.
6.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL AND FEDERAL CODES, RULES AND REGULATIONS GOVERNING THIS PROJECT.
7.	UPON COMPLETION OF JOB, INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATIONS AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS, AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
8.	PLUMBING CONTRACTOR SHALL VERIFY INSTALLATION REQUIREMENTS FOR FLOOR DRAINS. THE GOVERNING AUTHORITY HAVING JURISDICTION MAY REQUIRE THE FOLLOWING: FLOOR SINKS MAY BE REQUIRED TO BE INSTALLED WITH THE RIM RAISED ABOVE THE FINISHED FLOOR. FLOOR DRAINS MAY NEED TO BE RECESSED WITH THE FLOOR SLOPED TO THE DRAIN. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS INFORMATION AND INSTALLING THESE ITEMS AS REQUIRED BY CODE.



REGISTRATION SEAL

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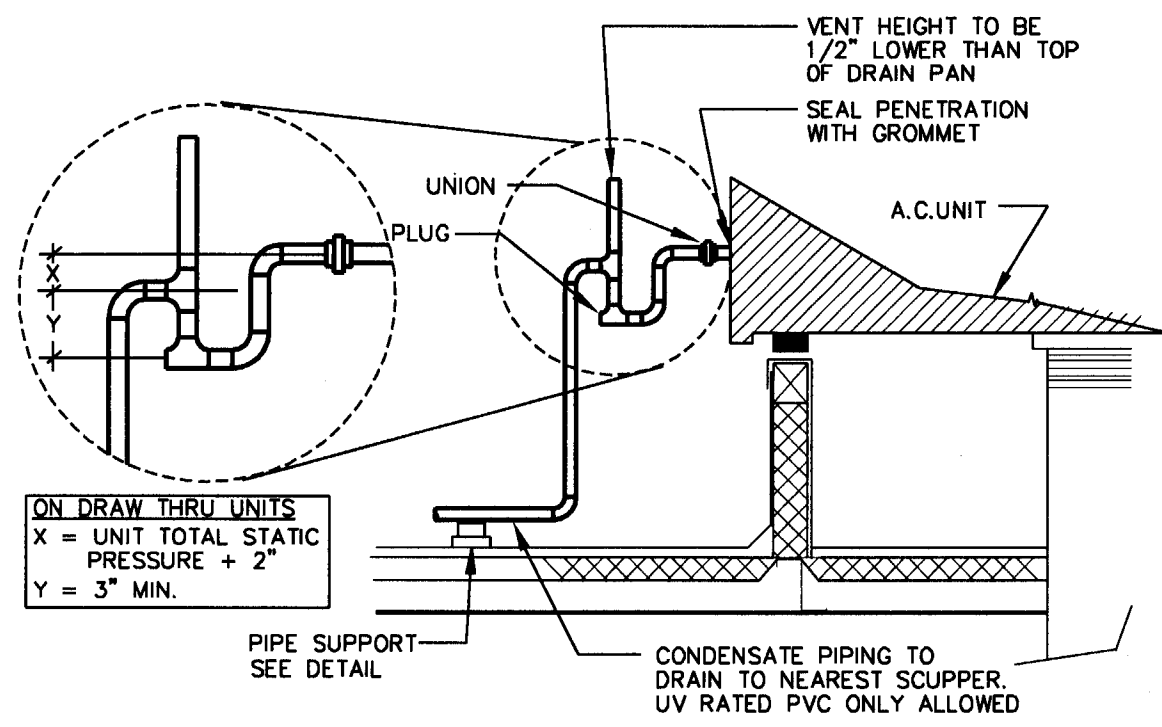
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STORE# 939

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2	12/06/10	12/06/10

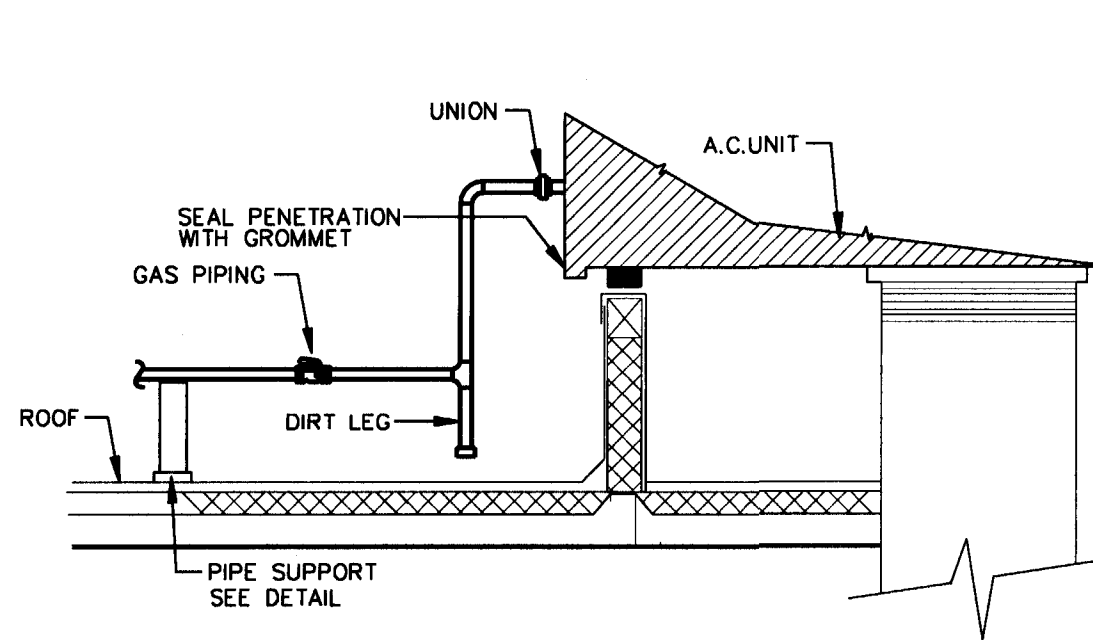
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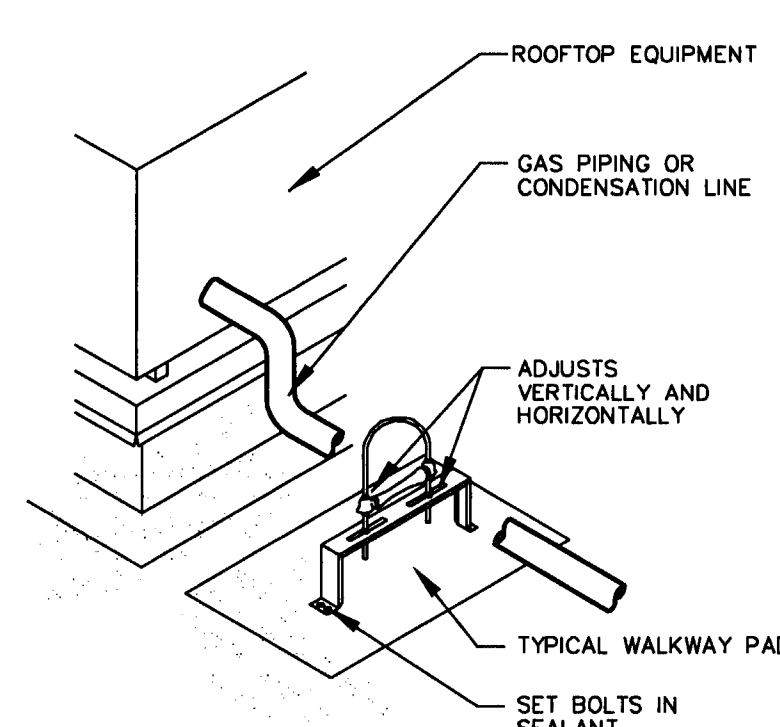
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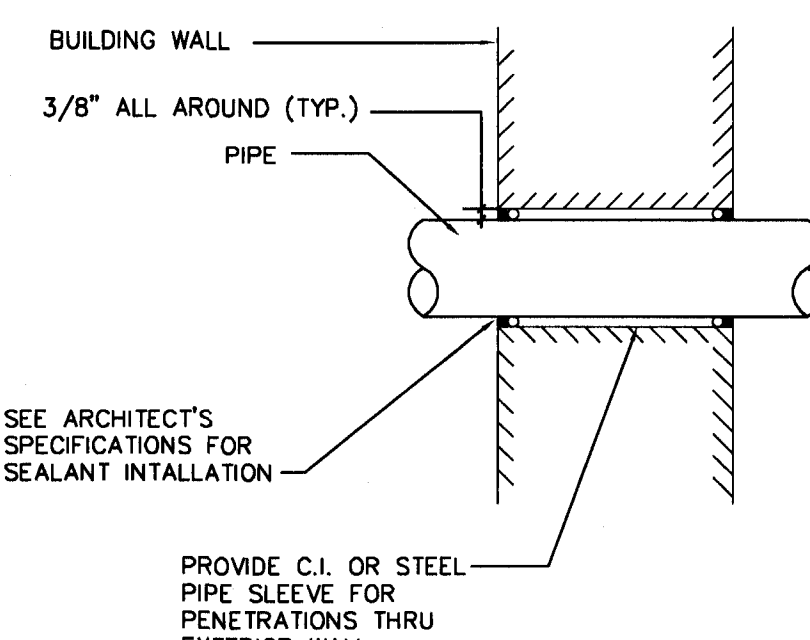
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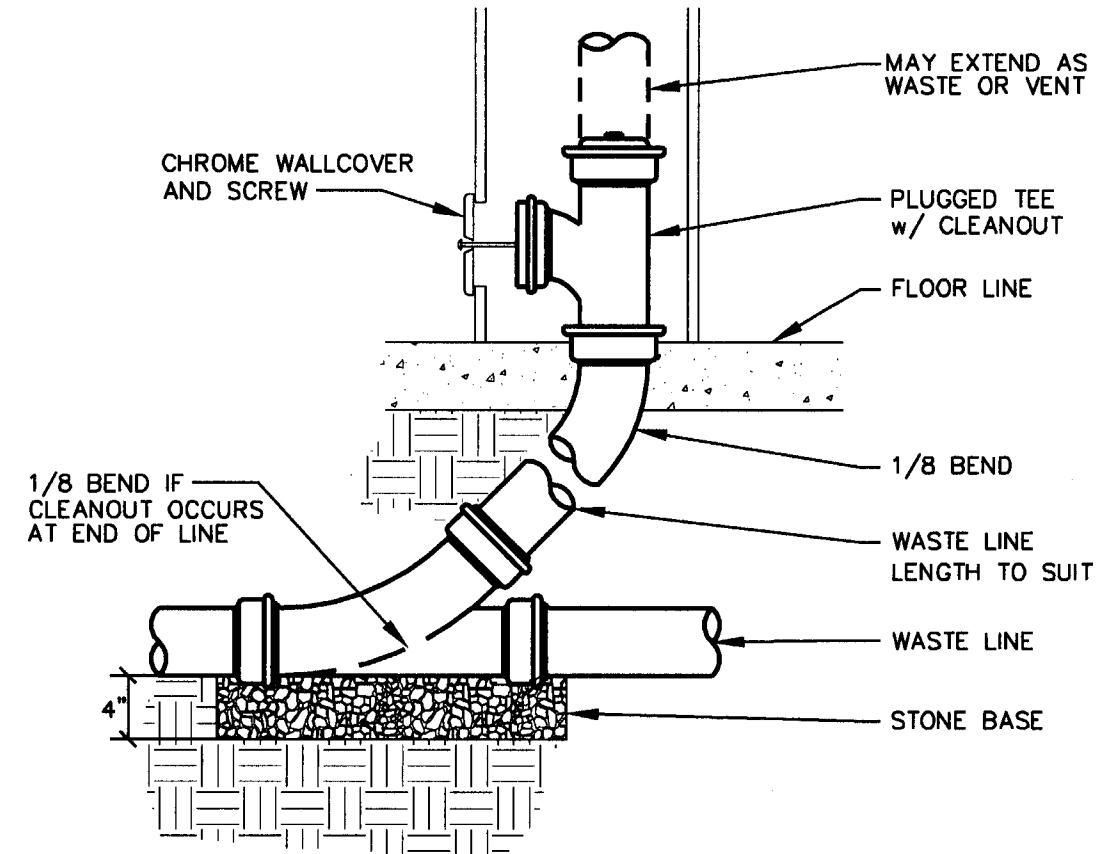
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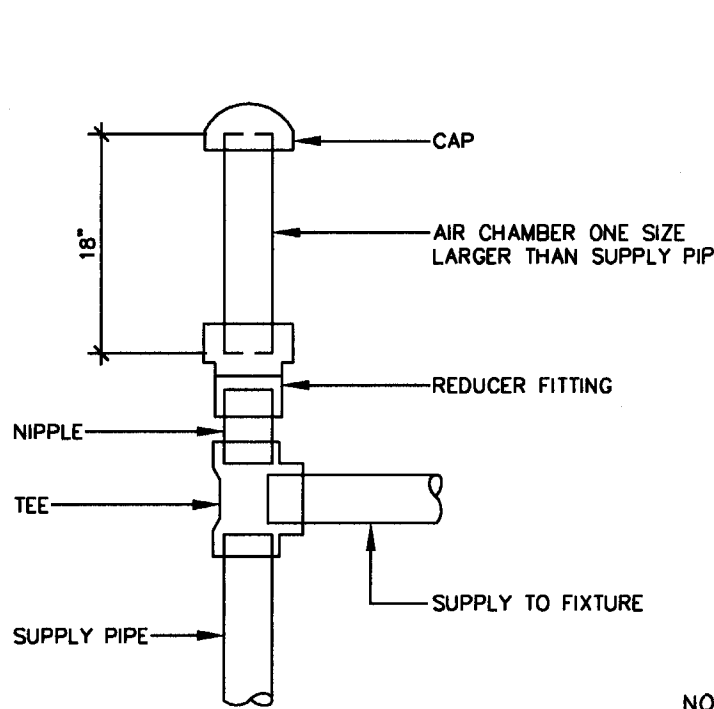
03 PIPE SUPPORT DETAIL
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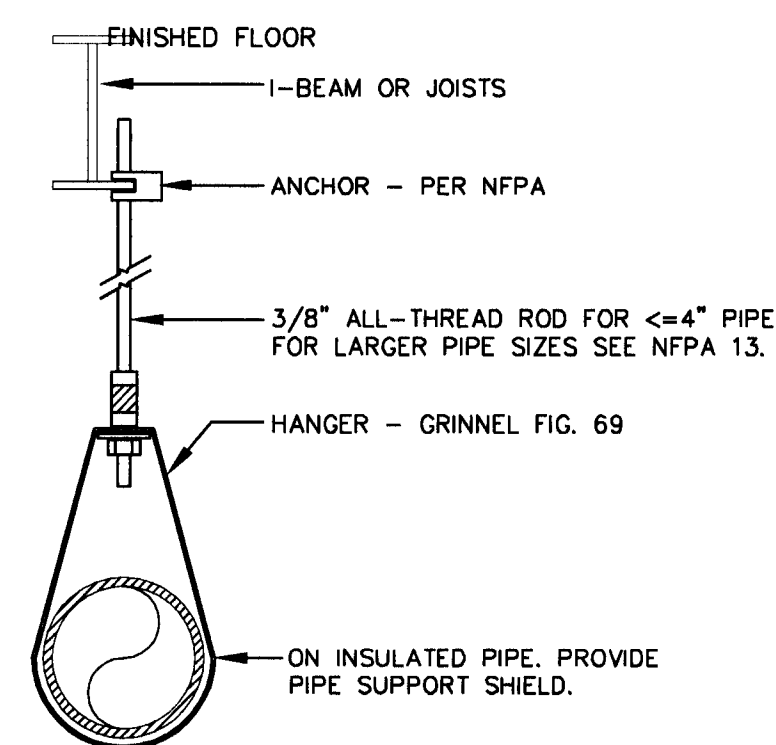
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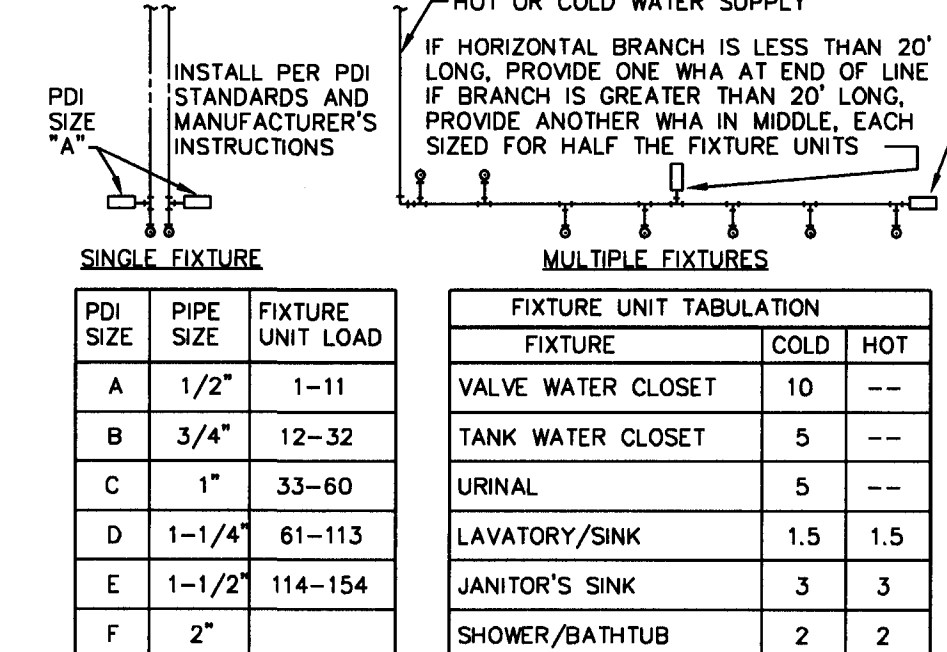
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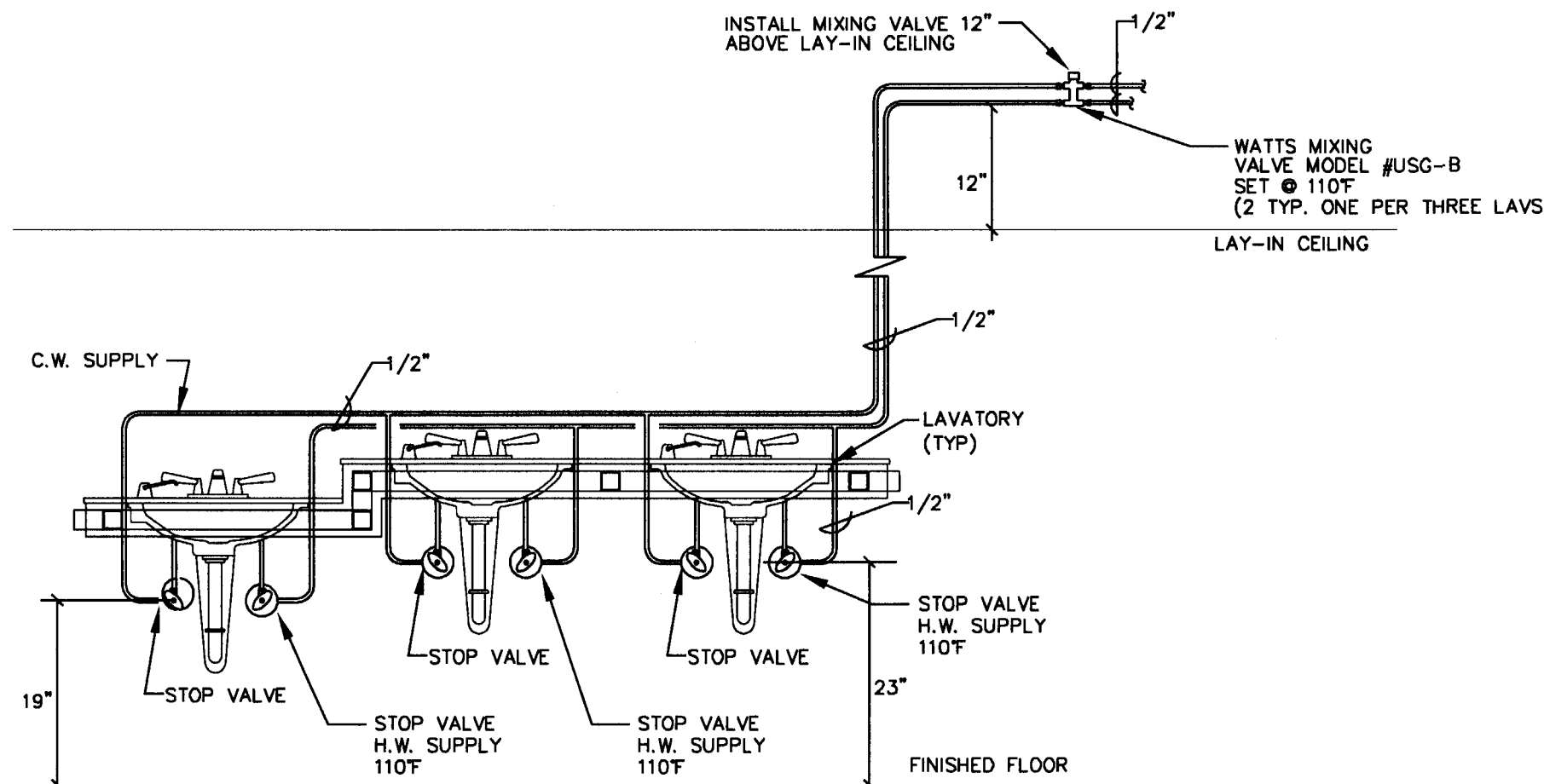
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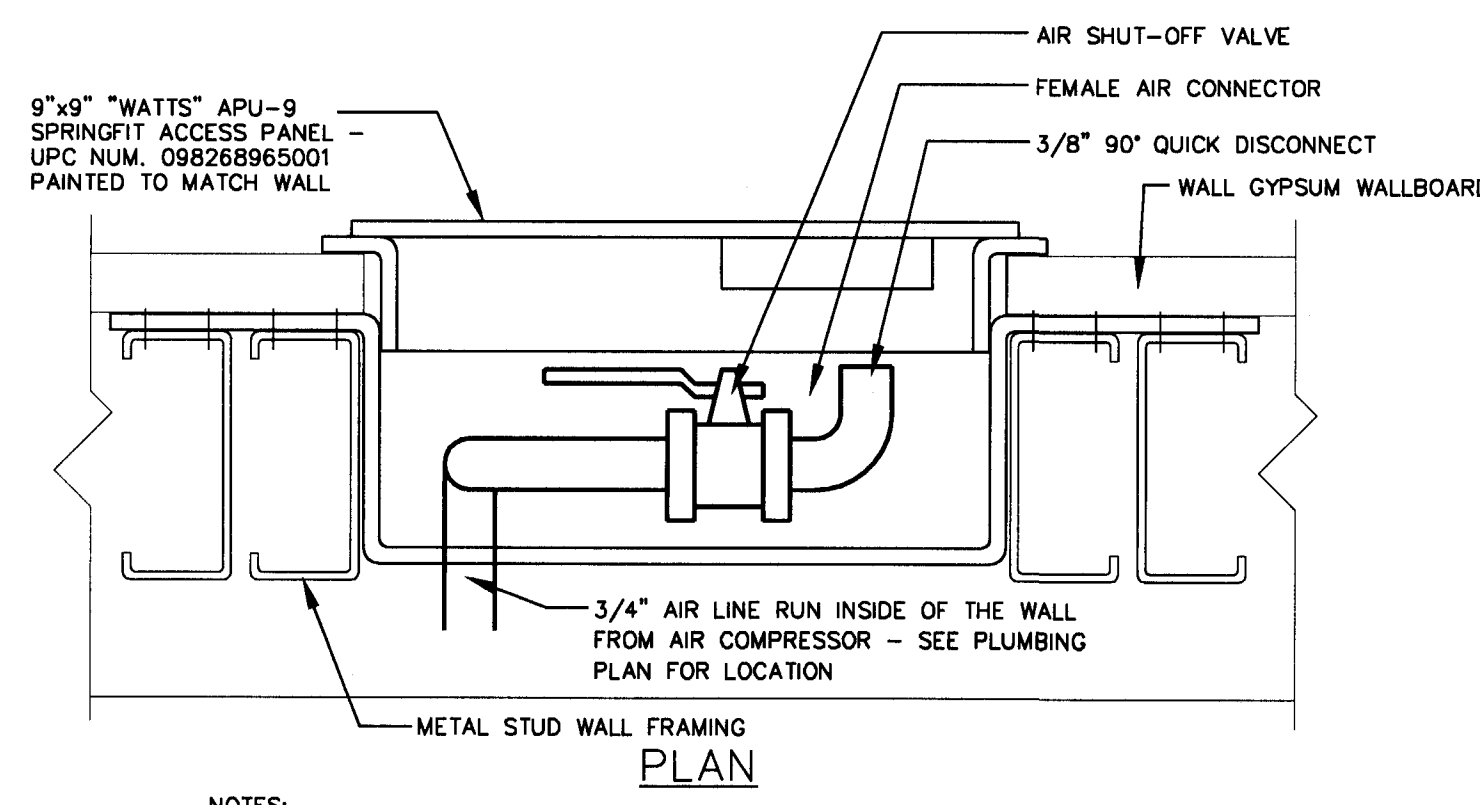
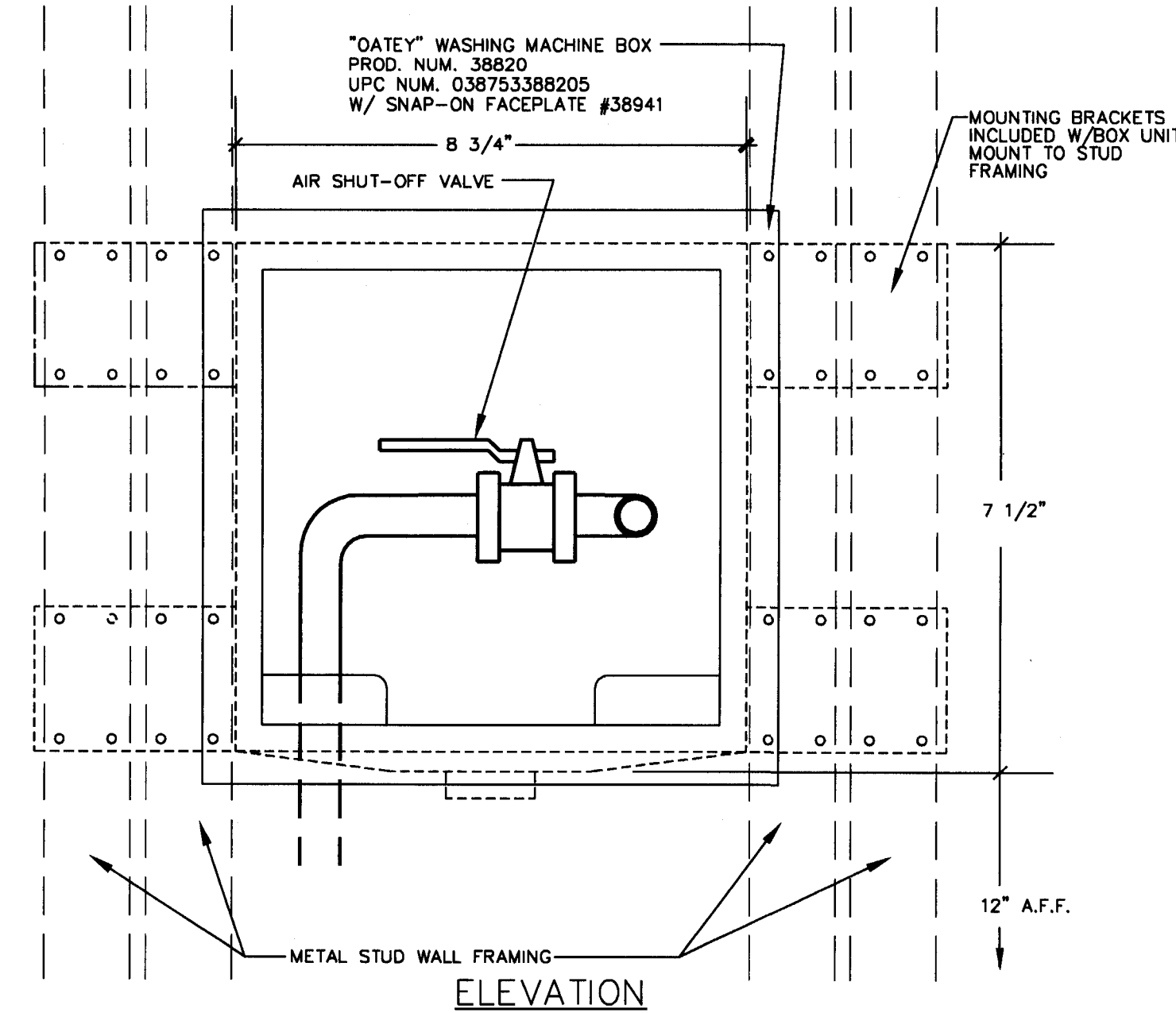
07 PIPE HANGER DETAIL
SCALE: NONE



08 HAMMER ARRESTER DETAIL
SCALE: NONE

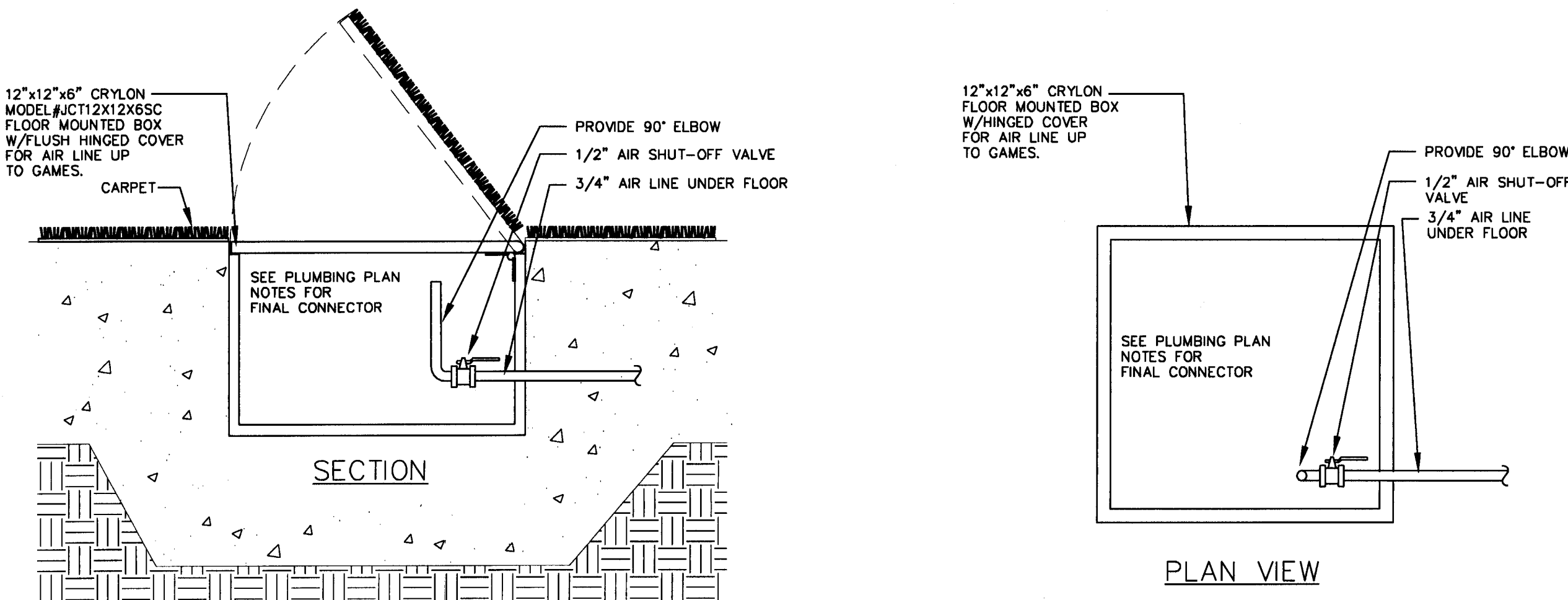


09 MV-1 LAVATORY MIXING VALVE DETAIL
SCALE: NONE

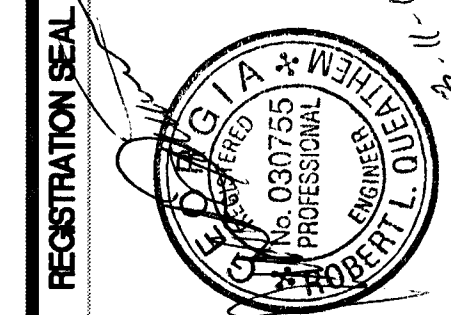


NOTES:
1. VALVE TO BE MOUNTED @ 12\"/>

11 WALL AIR VALVE CONNECTION BOX DETAIL
SCALE: NONE

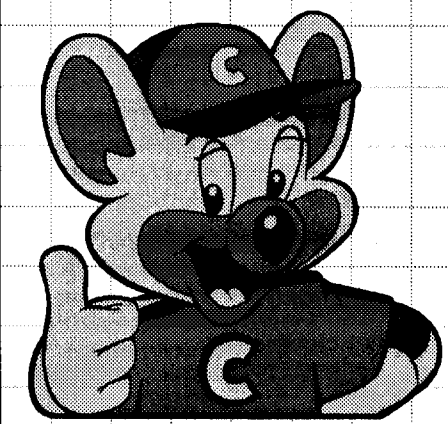


10 FLOOR BOX CONNECTION
SCALE: NONE



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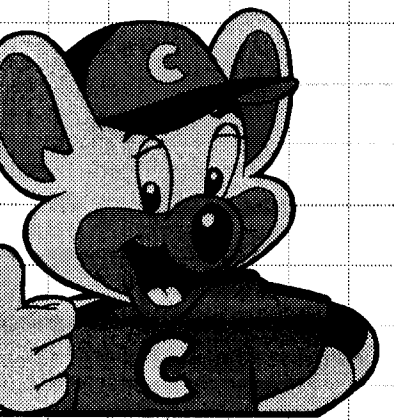
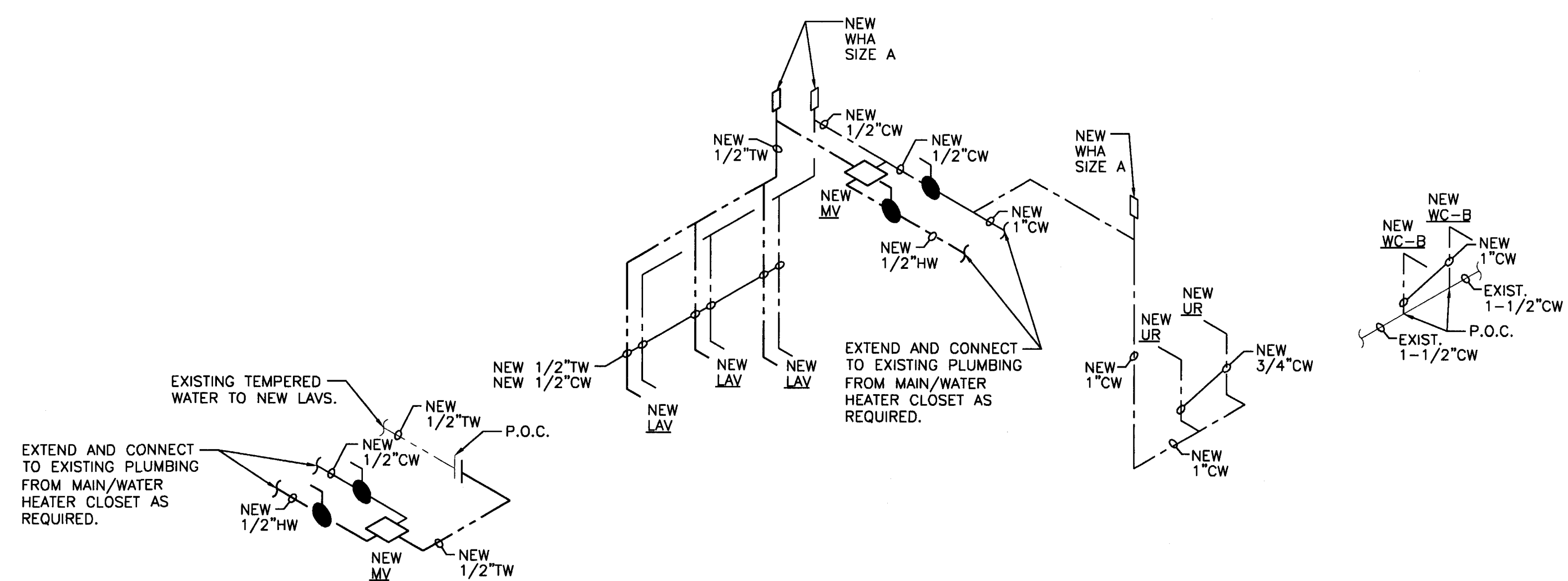
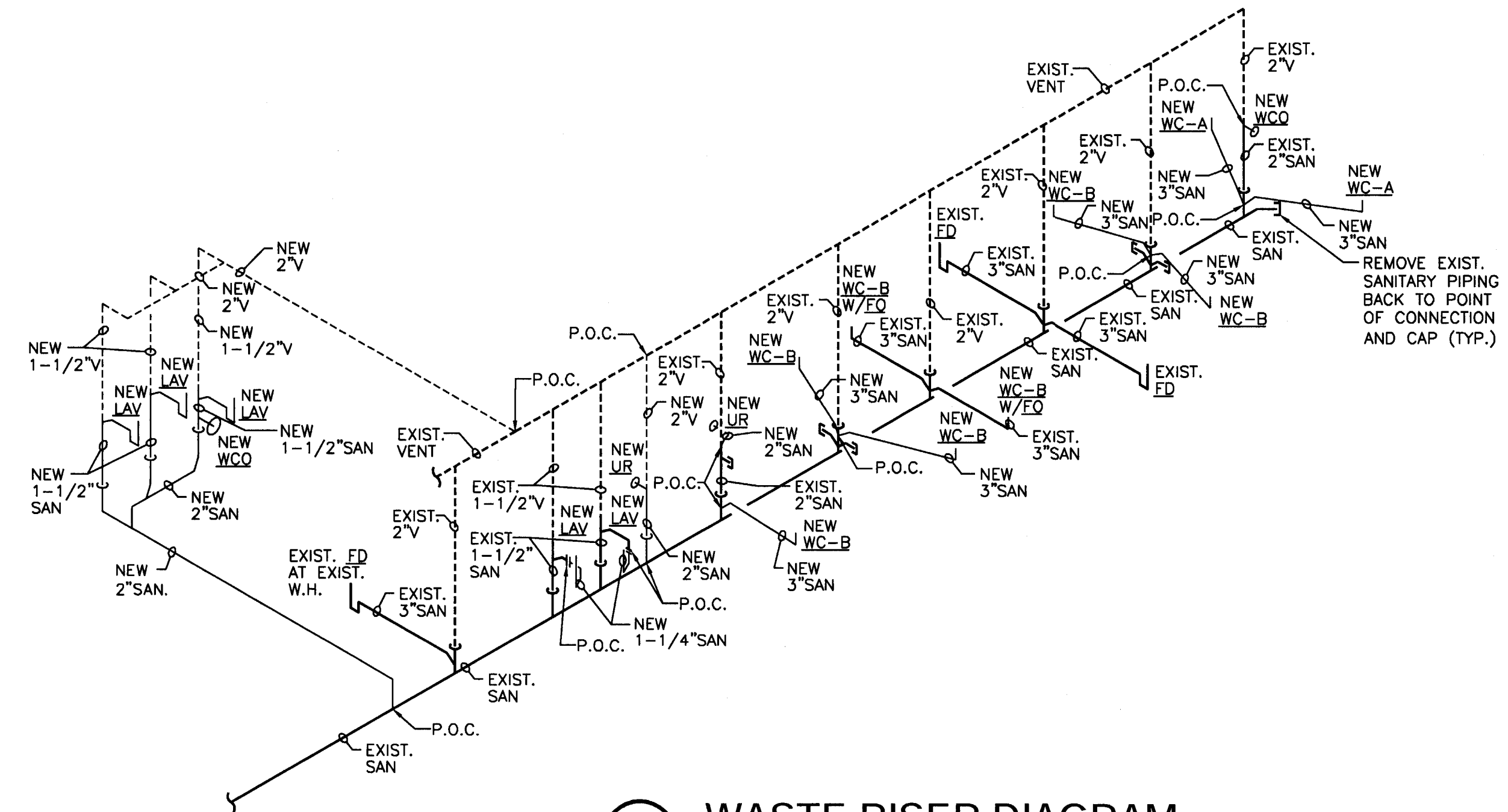
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PROJECT NO: 101301		
DRAWN BY: JCC		
CHECKED BY: OGB		
ISSUE DATE: 12/06/10		

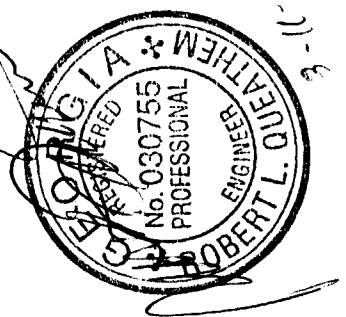
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PLUMBING DETAILS

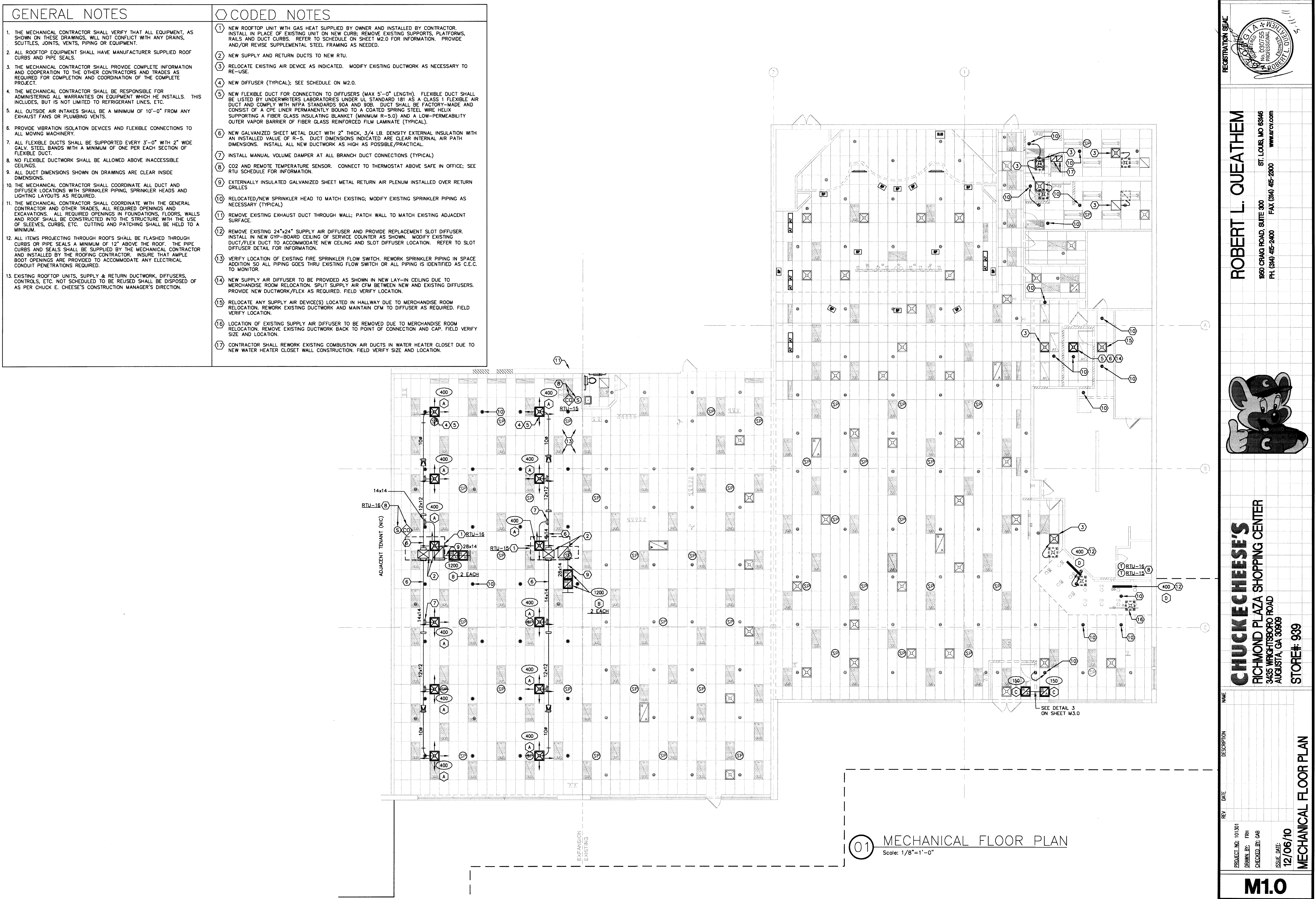


CHUCKEHEESE'S
RICHMOND PLAZA SHOPPING CENTER
3435 WRIGHTSBORO ROAD
AUGUSTA, GA 30909
STORE# 939

ROBERT L. QUEA I HEM
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 WWW.BFCI.COM



NAME	DESCRIPTION	REV	DATE
	PROJECT NO:	101301	
	DRAWN BY:	JCC	
	CHECKED BY:	GAB	
	ISSUE DATE:	12/06/10	
	PLUMBING RISERS		



GENERAL NOTES

1. THE MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, PIPING OR EQUIPMENT.
2. ALL ROOFTOP EQUIPMENT SHALL HAVE MANUFACTURER SUPPLIED ROOF CURBS AND PIPE SEALS.
3. THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
4. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES, BUT IS NOT LIMITED TO REFRIGERANT LINES, ETC.
5. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FANS OR PLUMBING VENTS.
6. PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.
7. ALL FLEXIBLE DUCTS SHALL BE SUPPORTED EVERY 3'-0" WITH 2" WIDE GALV. STEEL BANDS WITH A MINIMUM OF ONE PER EACH SECTION OF FLEXIBLE DUCT.
8. NO FLEXIBLE DUCTWORK SHALL BE ALLOWED ABOVE INACCESSIBLE CEILING.
9. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
10. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH SPRINKLER PIPING, SPRINKLER HEADS AND LIGHTING LAYOUTS AS REQUIRED.
11. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
12. ALL ITEMS PROJECTING THROUGH ROOFS SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ROOFING CONTRACTOR. INSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED.
13. EXISTING ROOFTOP UNITS, SUPPLY & RETURN DUCTWORK, DIFFUSERS, CONTROLS, ETC. NOT SCHEDULED TO BE REUSED SHALL BE DISPOSED OF AS PER CHUCK E. CHEESE'S CONSTRUCTION MANAGER'S DIRECTION.

CODED NOTES

- 1 NEW ROOFTOP UNIT WITH GAS HEAT SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR. INSTALL IN PLACE OF EXISTING UNIT ON NEW CURB; REMOVE EXISTING SUPPORTS, PLATFORMS, RAILS AND DUCT CURBS. REFER TO SCHEDULE ON SHEET M2.0 FOR INFORMATION. PROVIDE AND/OR REVISE SUPPLEMENTAL STEEL FRAMING AS NEEDED.
- 2 NEW SUPPLY AND RETURN DUCTS TO NEW RTU.
- 3 RELOCATE EXISTING AIR DEVICE AS INDICATED. MODIFY EXISTING DUCTWORK AS NECESSARY TO RE-USE.
- 4 NEW DIFFUSER (TYPICAL); SEE SCHEDULE ON M2.0.
- 5 NEW FLEXIBLE DUCT FOR CONNECTION TO DIFFUSERS (MAX 5'-0" LENGTH). FLEXIBLE DUCT SHALL BE LISTED BY UNDERWRITERS LABORATORIES UNDER UL STANDARD 181 AS A CLASS 1 FLEXIBLE AIR DUCT AND COMPLY WITH NFPA STANDARDS 90A AND 90B. DUCT SHALL BE FACTORY-MADE AND CONSIST OF A CPE LINER PERMANENTLY BOUND TO A COATED SPRING STEEL WIRE HELIX SUPPORTING A FIBER GLASS INSULATING BLANKET (MINIMUM R-5.0) AND A LOW-PERMEABILITY OUTER VAPOR BARRIER OF FIBER GLASS REINFORCED FILM LAMINATE (TYPICAL).
- 6 NEW GALVANIZED SHEET METAL DUCT WITH 2" THICK, 3/4 LB. DENSITY EXTERNAL INSULATION WITH AN INSTALLED VALUE OF R-5. DUCT DIMENSIONS INDICATED ARE CLEAR INTERNAL AIR PATH DIMENSIONS. INSTALL ALL NEW DUCTWORK AS HIGH AS POSSIBLE/PRACTICAL.
- 7 INSTALL MANUAL VOLUME DAMPER AT ALL BRANCH DUCT CONNECTIONS (TYPICAL)
- 8 CO2 AND REMOTE TEMPERATURE SENSOR. CONNECT TO THERMOSTAT ABOVE SAFE IN OFFICE; SEE RTU SCHEDULE FOR INFORMATION.
- 9 EXTERNALLY INSULATED GALVANIZED SHEET METAL RETURN AIR PLENUM INSTALLED OVER RETURN GRILLES
- 10 RELOCATED/NEW SPRINKLER HEAD TO MATCH EXISTING; MODIFY EXISTING SPRINKLER PIPING AS NECESSARY (TYPICAL)
- 11 REMOVE EXISTING EXHAUST DUCT THROUGH WALL; PATCH WALL TO MATCH EXISTING ADJACENT SURFACE.
- 12 REMOVE EXISTING 24"x24" SUPPLY AIR DIFFUSER AND PROVIDE REPLACEMENT SLOT DIFFUSER. INSTALL IN NEW GYP-BOARD CEILING OF SERVICE COUNTER AS SHOWN. MODIFY EXISTING DUCT/FLEX DUCT TO ACCOMMODATE NEW CEILING AND SLOT DIFFUSER LOCATION. REFER TO SLOT DIFFUSER DETAIL FOR INFORMATION.
- 13 VERIFY LOCATION OF EXISTING FIRE SPRINKLER FLOW SWITCH. REWORK SPRINKLER PIPING IN SPACE ADDITION SO ALL PIPING GOES THRU EXISTING FLOW SWITCH OR ALL PIPING IS IDENTIFIED AS C.E.C. TO MONITOR.
- 14 NEW SUPPLY AIR DIFFUSER TO BE PROVIDED AS SHOWN IN NEW LAY-IN CEILING DUE TO MERCHANDISE ROOM RELOCATION. SPLIT SUPPLY AIR CFM BETWEEN NEW AND EXISTING DIFFUSERS. PROVIDE NEW DUCTWORK/FLEX AS REQUIRED. FIELD VERIFY LOCATION.
- 15 RELOCATE ANY SUPPLY AIR DEVICE(S) LOCATED IN HALLWAY DUE TO MERCHANDISE ROOM RELOCATION. REWORK EXISTING DUCTWORK AND MAINTAIN CFM TO DIFFUSER AS REQUIRED. FIELD VERIFY LOCATION.
- 16 LOCATION OF EXISTING SUPPLY AIR DIFFUSER TO BE REMOVED DUE TO MERCHANDISE ROOM RELOCATION. REMOVE EXISTING DUCTWORK BACK TO POINT OF CONNECTION AND CAP. FIELD VERIFY SIZE AND LOCATION.
- 17 CONTRACTOR SHALL REWORK EXISTING COMBUSTION AIR DUCTS IN WATER HEATER CLOSET DUE TO NEW WATER HEATER CLOSET WALL CONSTRUCTION. FIELD VERIFY SIZE AND LOCATION.

REGISTRATION SEAL

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CHUCK E CHEESE'S

RICHMOND PLAZA SHOPPING CENTER

3435 WRIGHTSBORO ROAD
AUGUSTA, GA 30909

STORE #: 939

REV	DATE	DESCRIPTION
01	12/06/10	MECHANICAL FLOOR PLAN

PROJECT NO: 101301
DRAWN BY: FRH
CHECKED BY: CAG
ISSUE DATE: 12/06/10

M1.0

ROOFTOP UNIT LABELING

ALL ROOFTOP UNITS ARE TO BE LABELED WITH ENGRAVED LAMINATED NAMEPLATES, SCREWED TO THE EXTERIOR OF THE UNITS SHOWING THE FOLLOWING INFORMATION :

1. UNIT NUMBER -----
2. MODEL NUMBER -----
3. SERIAL NUMBER -----
4. GAS OR ELECTRIC HEAT -----
5. TONNAGE -----
6. VOLTAGE -----

OUTSIDE AIR CALCULATIONS
(FOR NEW ADDITION)

OUTSIDE AIR REQUIRED

ROOM USE	SQ. FT.	CFM/SQ. FT.	No. PEOPLE	CFM/PERSON	CFM REQ'D
SKILLS AREA EXPANSION	3468	--	90	25	2250
TOTAL	3468	--	90	--	2250*

*PER ASHRAE VARIABLE OCCUPANCY 50% FACTOR WITH CO2 SENSOR CONTROLS = 1125 CFM

OUTSIDE AIR PROVIDED

UNIT No.	SUPPLY AIR	RETURN AIR	OUTSIDE AIR @ 50%
RTU-14	2400	1837	563
RTU-15	2400	1838	562
TOTAL	4800	3675	1125

ROOFTOP UNIT SCHEDULE

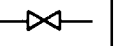
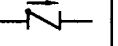
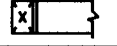
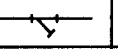
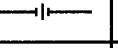
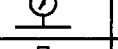
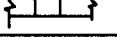
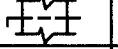
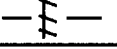
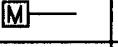
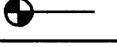
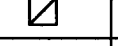
MARK	MFG'R	MODEL NO	NOM. TONS	SUPPLY CFM	SUPPLY FAN H.P.	EXT. S.P.	MIN O/A CFM	COOLING BTUH		HEATING BTUH		ELECTRICAL				VOLT	#	MCA	FUSE SIZE	E.E.R.	OPER. WEIGHT LBS	ZONE SERVED	REMARKS
								TOTAL	SENSIBLE	INPUT	OUTPUT	NO. COMP.	COMP. RLA EA.	NO. FANS	FAN FLA EA.								
RTU 1	EXISTING CARRIER	48GSO36090301	3.0	-	-	-	-	-	-	90,000	72,600	1	15.1	1	3.6	208	1	24.1	35	-	-	EXISTING DINING	6
RTU 2	EXISTING CARRIER	48GSO36090301	3.0	-	-	-	-	-	-	90,000	72,600	1	15.1	1	3.6	208	1	24.1	35	-	-	EXISTING DINING	6
RTU 3	EXISTING CARRIER	48GSO48115301	4.0	-	-	-	-	-	-	115,000	94,200	1	25.3	1	3.8	208	1	37.0	60	-	-	EXISTING DINING	6
RTU 4	EXISTING CARRIER	48GSO36090301	3.0	-	-	-	-	-	-	90,000	72,600	1	15.1	1	3.6	208	1	24.1	35	-	-	EXISTING DINING	6
RTU 5	EXISTING CARRIER	48GSO36090301	3.0	-	-	-	-	-	-	90,000	72,600	1	15.1	1	3.6	208	1	24.1	35	-	-	EXISTING DINING	6
RTU 6	EXISTING CARRIER	48GSO36090301	3.0	-	-	-	-	-	-	90,000	72,600	1	15.1	1	3.6	208	1	24.1	35	-	-	EXISTING DINING	6
RTU 7	EXISTING CARRIER	48GSO48115301	4.0	-	-	-	-	-	-	115,000	94,200	1	25.3	1	3.8	208	1	37.0	60	-	-	EXISTING DINING	6
RTU 8	EXISTING CARRIER	48GSO36090301	3.0	-	-	-	-	-	-	90,000	72,600	1	15.1	1	3.6	208	1	24.1	35	-	-	EXISTING DINING	6
RTU 9	EXISTING CARRIER	48TPD012A511	10.0	-	-	-	-	-	-	180,000	144,000	2	15.8	1	7.5	208	3	45.9	50	-	-	EXISTING DINING	6
RTU 10	EXISTING CARRIER	48TPD012A511	10.0	-	-	-	-	-	-	180,000	144,000	2	15.8	1	7.5	208	3	45.9	50	-	-	EXISTING DINING	6
RTU 11	EXISTING TRANE	YCC060F3MGBD	5.0	-	0.75	-	-	-	-	125,000	100,000	1	19.5	1	5.1	208	3	33.4	50	-	-	EXISTING SKILLS	6
RTU 12	EXISTING LENNOX	LGA060H2BH	5.0	-	2.0	-	-	-	-	125,000	100,000	1	17.3	1	7.5	208	3	32.0	45	-	-	EXISTING SKILLS	6
RTU 13	EXISTING LENNOX	LGA060H2BH	5.0	-	2.0	-	-	-	-	125,000	100,000	1	17.3	1	7.5	208	3	32.0	45	-	-	EXISTING SKILLS	6
RTU 14	NEW LENNOX	LGH092H4B	7.5	2400	2	0.7"	563	89,099	53,695	130,000	104,000	2	26.2	1	7.5	208	3	42	50	12.5	1390	SKILLS EXPANSION	1 THRU 13
RTU 15	NEW LENNOX	LGH092H4B	7.5	2400	2	0.7"	562	89,099	53,695	130,000	104,000	2	26.2	1	7.5	208	3	42	50	12.5	1390	SKILLS EXPANSION	1 THRU 13

- NOTES: "-" INDICATES NO CHANGE TO EXISTING VALUE
1. HVAC UNITS PROVIDED BY OWNER.
 2. UNITS SELECTED AT 81°F DB, 70°F WB, 94°F OUTDOOR AMBIENT.
 3. NO UNIT LOSSES INCLUDED. ALLOW FOR WET COIL AND DIRTY FILTER.
 4. PROVIDE UNIT WITH CO2 INDOOR AIR QUALITY SENSOR AND CONTROLS.
 5. PROVIDE ECONOMIZER AND BAROMETRIC RELIEF DAMPER.
 6. PROVIDE TWO SETS OF 2" MERV-8 PLEATED FILTERS. CHANGE FILTERS PRIOR TO AIR BALANCE, AND AFTER FINAL STORE CLEANING. DATE FILTERS.
 7. OWNER TO PROVIDE 7 DAY FULLY PROGRAMMABLE ENERGY CODE COMPLIANT COMMERCIAL REMOTE THERMOSTAT. M.C. TO INSTALL IN MANAGER'S OFFICE. OWNER TO PROVIDE SENSOR. M.C. TO INSTALL AT LOCATION SHOWN IN DINING ROOM. THERMOSTAT TO HAVE ECONOMIZER CONTROL CAPABILITY.
 8. LENNOX TO PROVIDE WITH HVAC UNITS SMOKE DETECTOR INSTALLED IN SUPPLY AIR DUCT. GENERAL CONTRACTOR TO MAKE FINAL CONNECTION. UPON ACTIVATION SMOKE DETECTOR IS TO SHUT DOWN RTU.
 9. ROOFTOP UNIT SHALL HAVE FACTORY-INSTALLED NEMA 3R DISCONNECT SWITCH, WP & GFCI
 10. ROOFTOP UNIT SHALL HAVE FACTORY-INSTALLED DRIVE KIT 01
 11. NEW ROOFTOP UNIT USES R-410 REFRIGERANT.
 12. 2-STAGE HEATING
 13. CONTRACTOR TO LABEL NEW HVAC UNITS AS PER "ROOFTOP UNIT LABELING" THIS SHEET.

PLEASE NOTE:

HVAC units provided by Owner. Chuck E. Cheese has an exclusive National Account agreement with Lennox Industries. Please contact your local Lennox sales office for information, or contact Lennox National Account Manager Chris Murray at 1-800-367-6285.

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
→	DIRECTION OF FLOW		LINED DUCTWORK
⊖	THERMOSTAT		RECTANGULAR ELBOW WITH TURNING VANES
	GATE VALVE		ROUND FLEXIBLE DUCT CONNECTION
	CHECK VALVE		90 DEGREE ELBOW DOWN
	STRAINER		90 DEGREE ELBOW UP
	UNION		FLEXIBLE DUCT CONNECTION
	PRESSURE GAUGE		SUPPLY AIR DEVICE
	THERMOMETER		DUCT SIZE TRANSITION
E.A.	EXHAUST AIR	CHWS	CHILLED WATER SUPPLY
⊖	FIRE DAMPER	CHWR	CHILLED WATER RETURN
H.O.A.	HAND - OFF - AUTOMATIC	CWS	CONDENSER WATER SUPPLY
N.C.	NORMALLY CLOSED	CWR	CONDENSER WATER RETURN
N.O.	NORMALLY OPEN	HWS	HOT WATER SUPPLY
M.A.	MIXED AIR	HWR	HOT WATER RETURN
O.A.	OUTSIDE AIR	RS	REFRIGERANT SUCTION
REL. A.	RELIEF AIR	RL	REFRIGERANT LIQUID
R.A.	RETURN AIR	FOT	FLAT ON TOP
	DUCT MOUNTED SMOKE DETECTOR	-D-	CONDENSATE DRAIN (PITCHED)
	MANUAL BALANCING DAMPER		BACKDRAFT DAMPER
	MOTORIZED DAMPER		POINT OF CONNECTION
	CEILING RETURN AIR DEVICE	NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT.	
	SUPPLY DUCT RISER		

AIR DISTRIBUTION

MARK	MFG'R	MODEL	FLOW RATE CFM	CORE VEL. FPM	N.C. LEVEL	MODULE SIZE	NECK SIZE	MOUNTING TYPE	DESCRIPTION	NOTES
CFM A	TITUS OR EQUAL	TMS-AA	SEE PLANS	500 MAX.	30 MAX.	24x24	10"ø	LAY-IN	4-WAY ADJ. LOUVER CLG. DIFFUSER	1
CFM B	TITUS OR EQUAL	50F	SEE PLANS	500 MAX.	30 MAX.	24x24	16"ø	LAY-IN	EGGCRATE RETURN GRILLE	1
CFM C	TITUS OR EQUAL	50F	SEE PLANS	500 MAX.	30 MAX.	24x24	10"ø	LAY-IN	EGGCRATE RETURN GRILLE	1
CFM D	TITUS OR EQUAL	FL-15	SEE PLANS	480 MAX.	30 MAX.	48x5 3/4	10"ø (OVAL)	DRYWALL	HIGH THROW SLOTTED SUPPLY GRILLE	1, 2

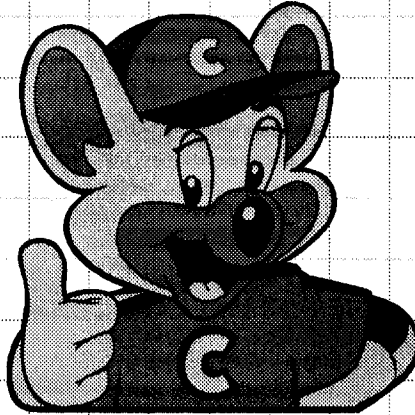
- NOTES:
1. PROVIDE WITH OFF-WHITE FINISH.
 2. PROVIDE 2 SLOT HIGH THROW DIFFUSER WITH TITUS PLENUM MODEL - FBPL 1.5" SLOT WITH 10" ROUND INLET.

REGISTRATION SEAL



ROBERT L. QUEATHEM

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www.lacv.com



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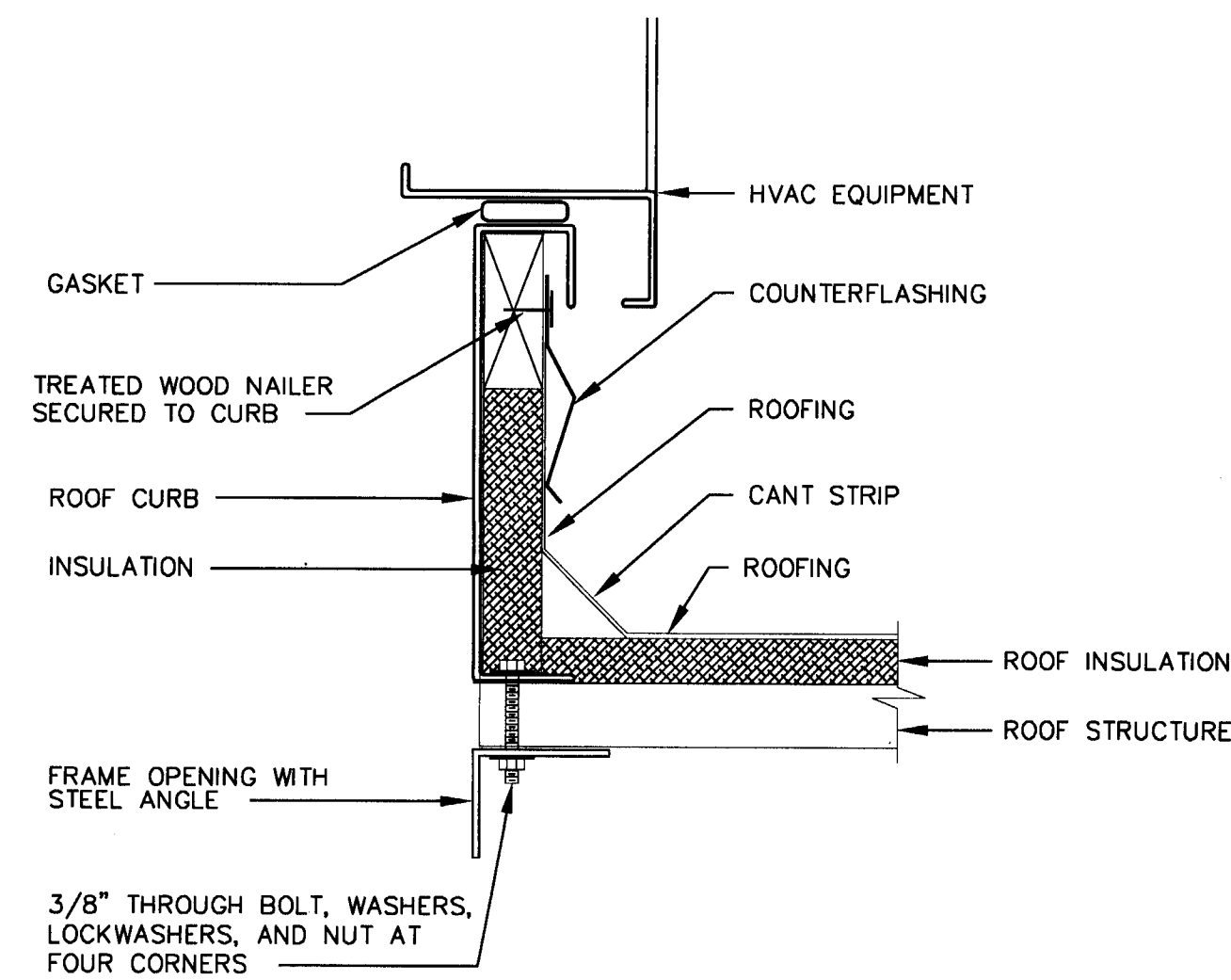
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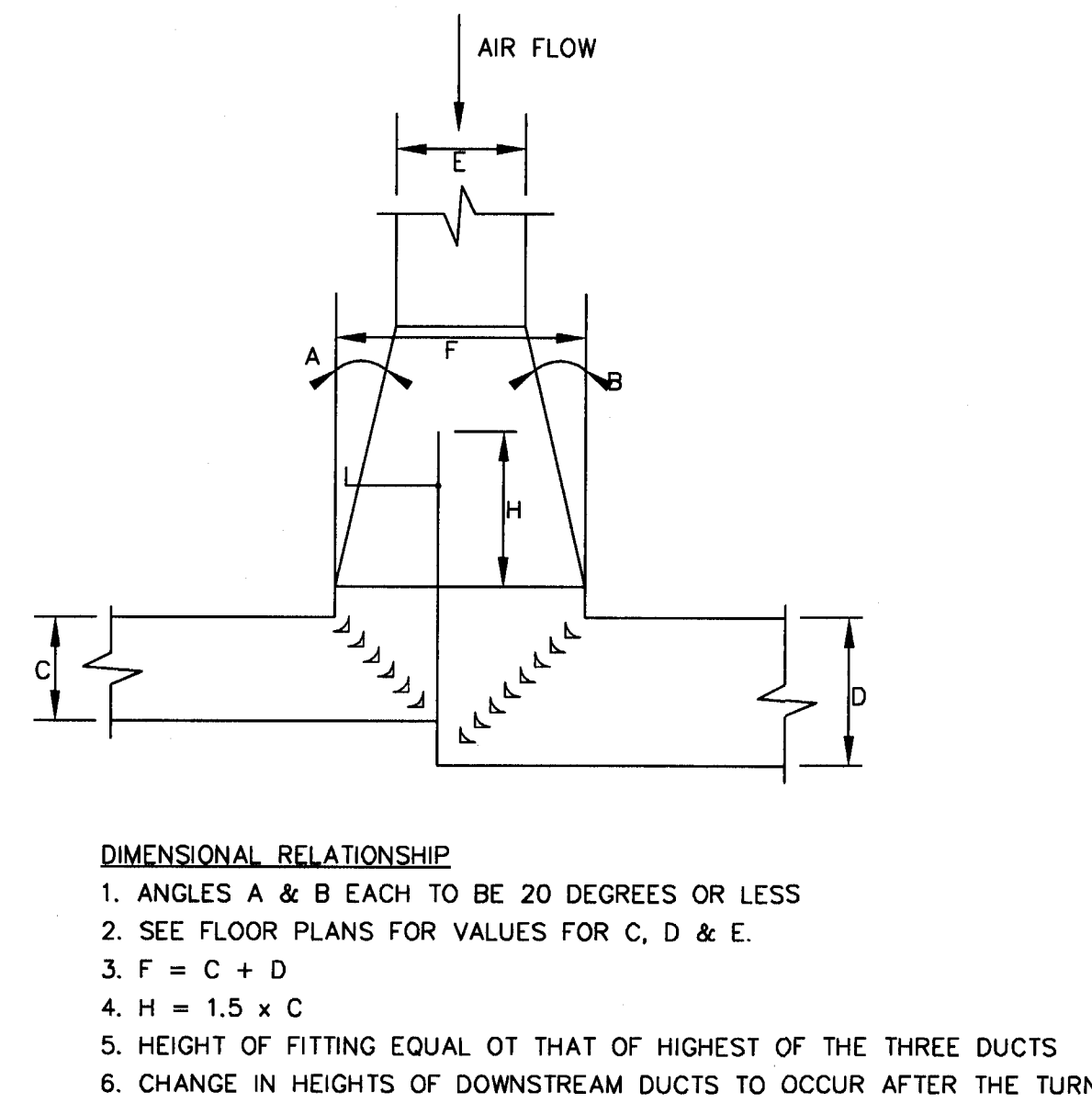
ISSUE DATE:
12/06/10

MECHANICAL SCHEDULES

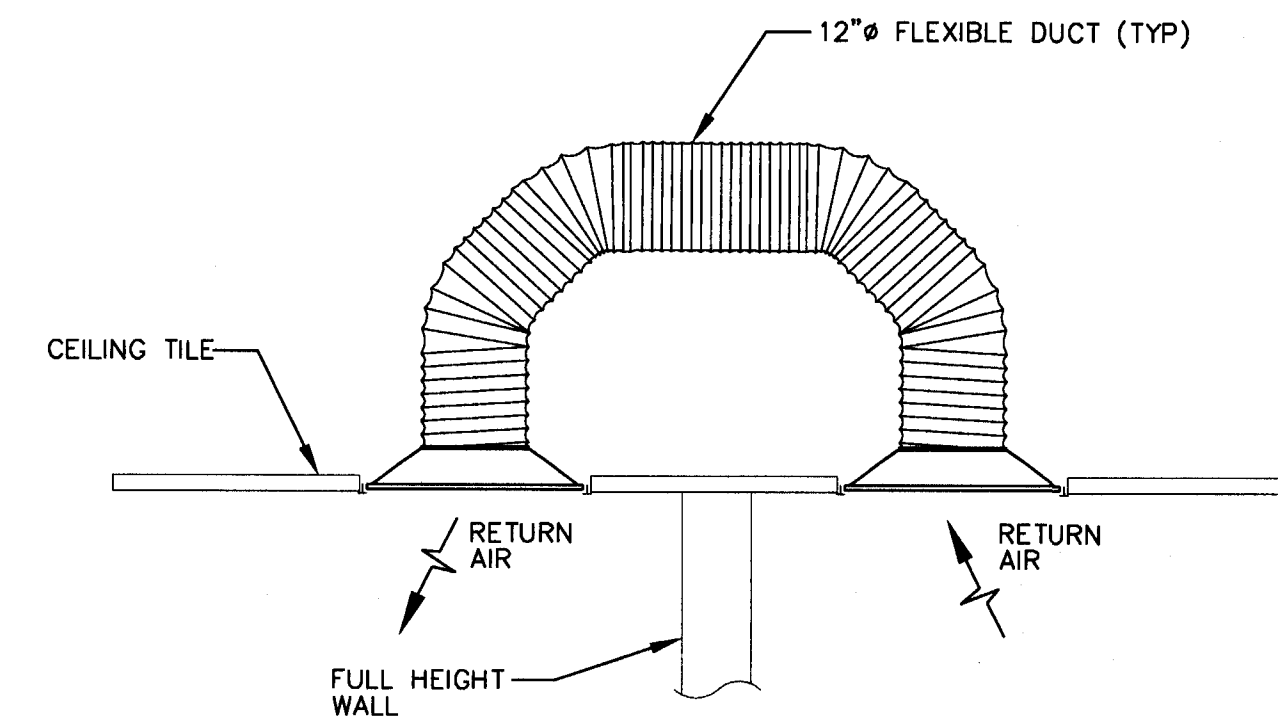
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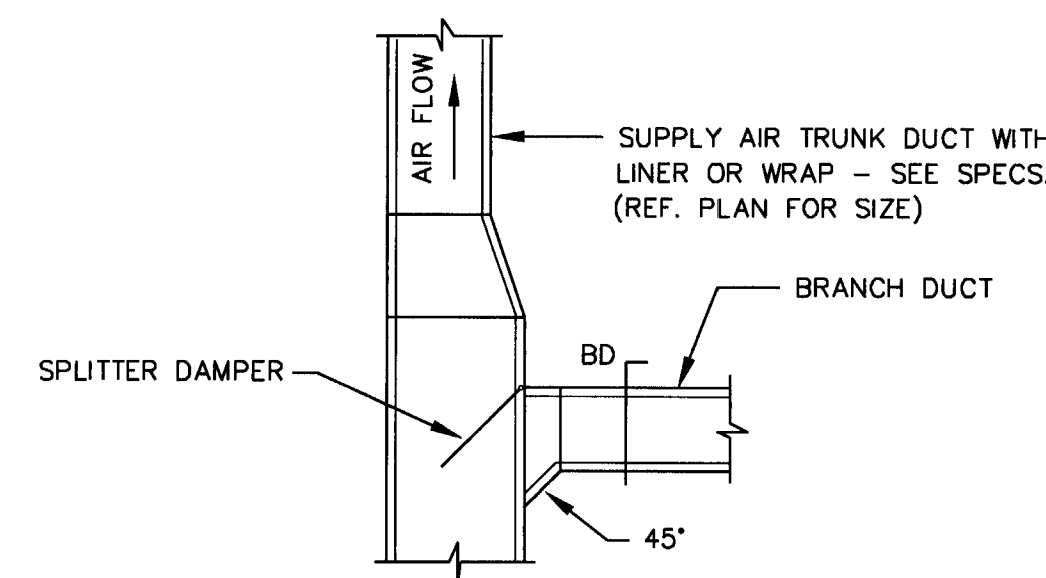
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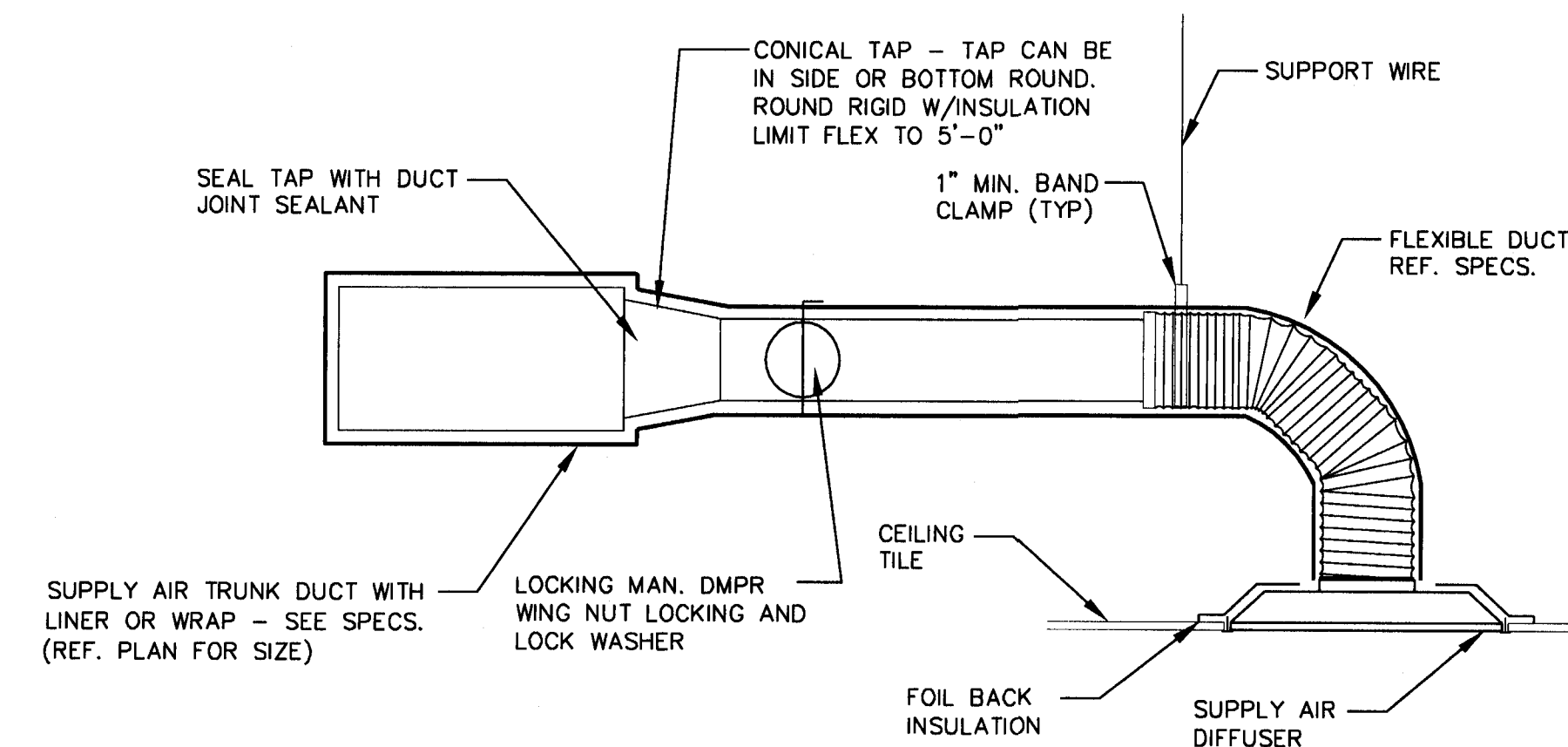
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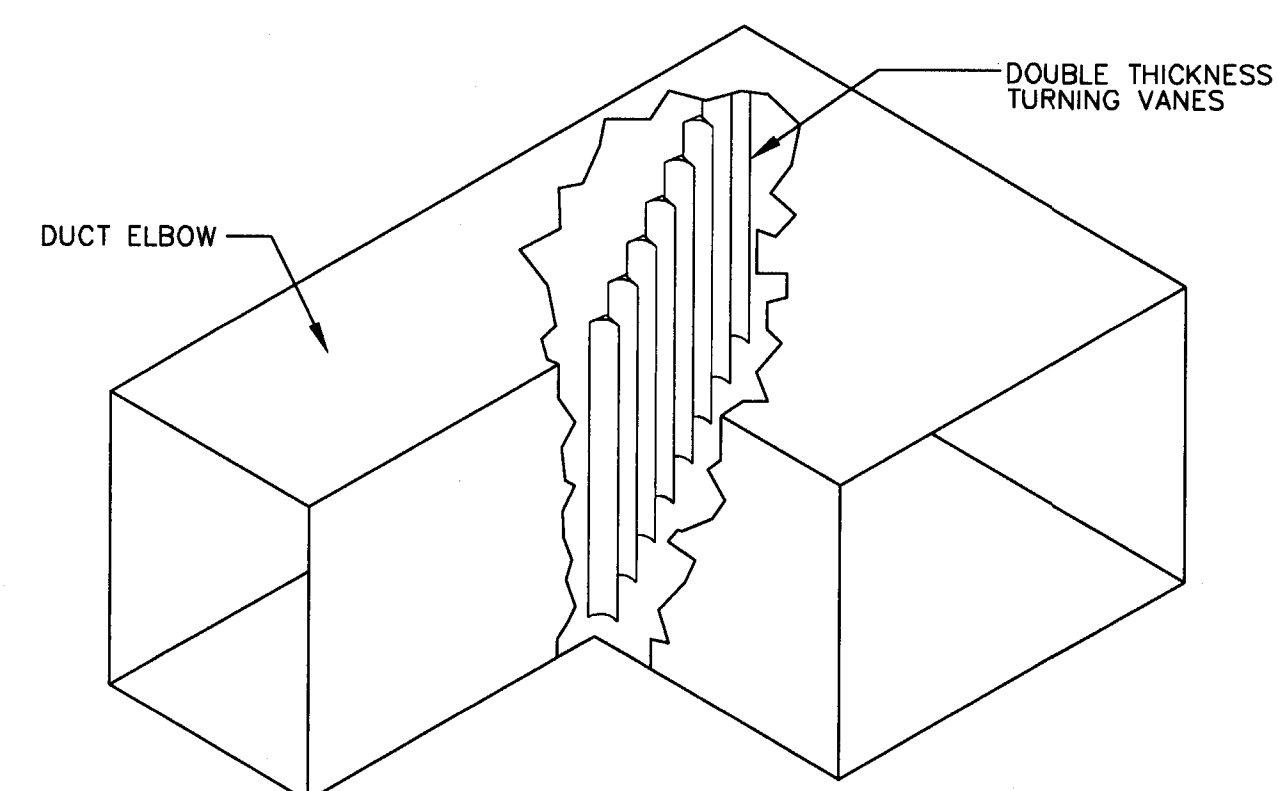
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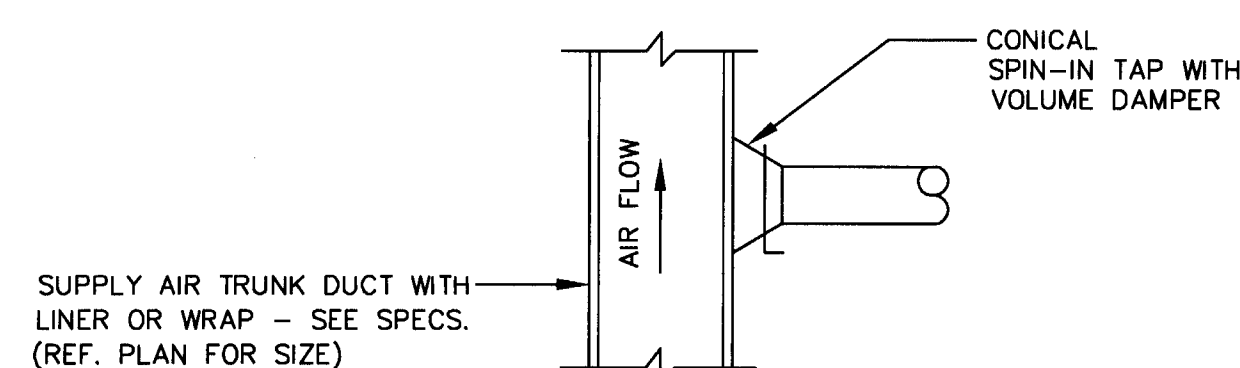
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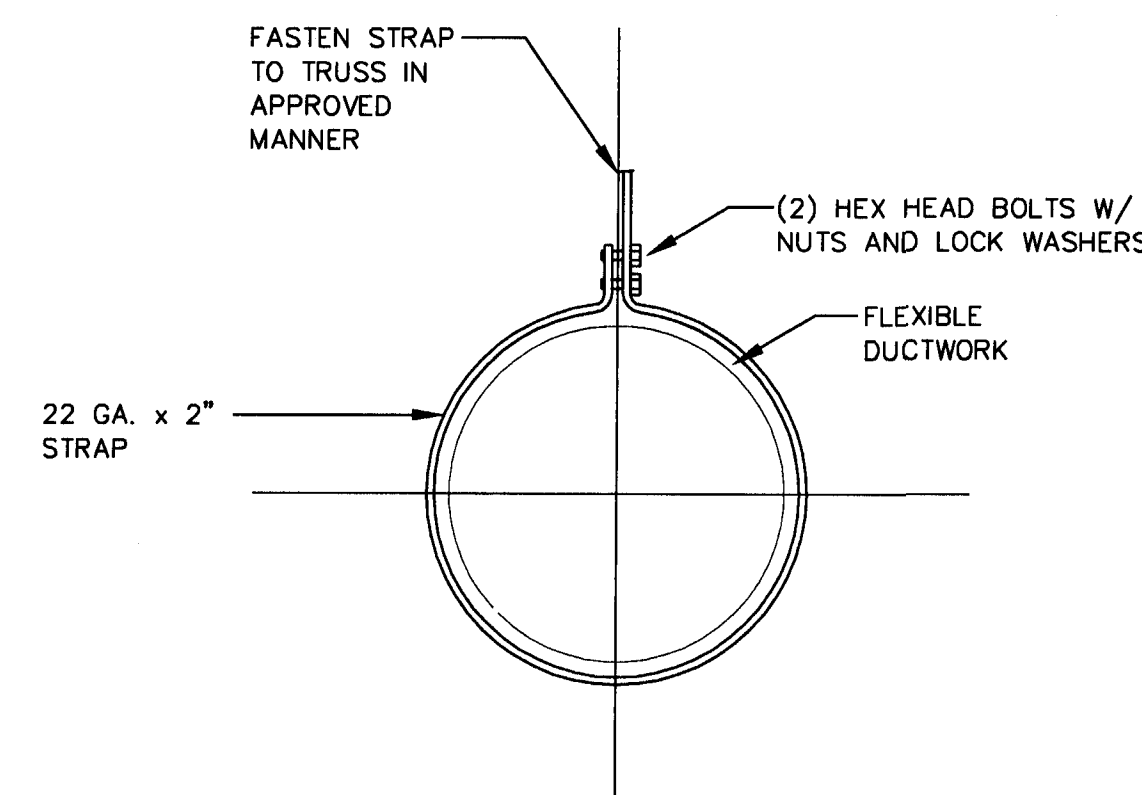
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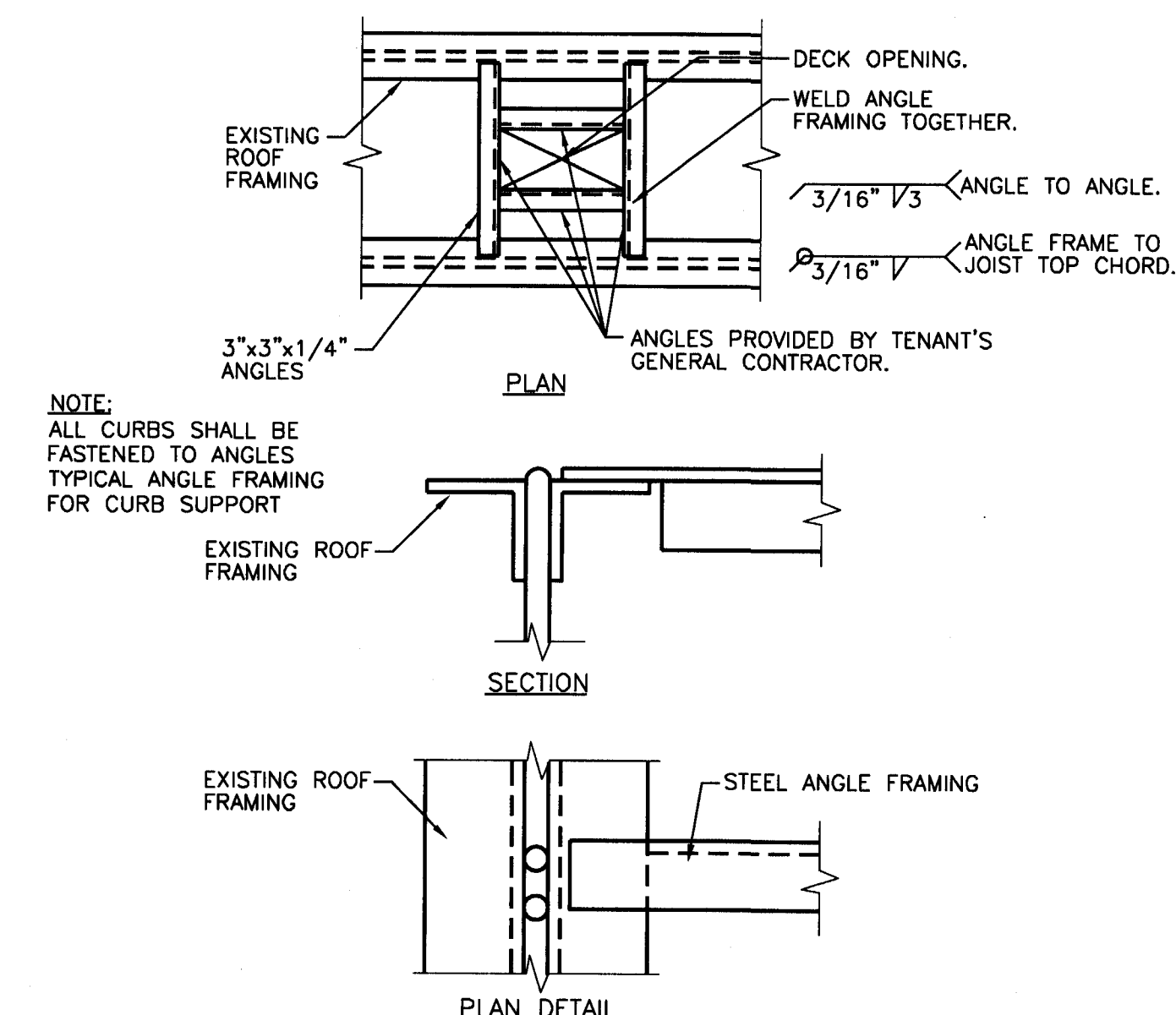
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07 SPIN-IN TAP DETAIL
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08 FLEX DUCT SUPPORT
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09 TYPICAL RTU ANGLE FRAMING
Scale: NO SCALE



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REV	DATE	DESCRIPTION

PROJECT NO: 101301
DRAWN BY: FRH
CHECKED BY: GAB
ISSUE DATE: 12/06/10
M3.0

MECHANICAL DETAILS

LIGHT FIXTURE SCHEDULE							
SYMBOL	TYPE	DESCRIPTION	MANUFACTURER & CATALOG No.	BALLAST TYPE	FIXTURE No. OF MOUNTAGE LAMPS	LAMP TYPE	REMARKS
	A1	2x4 FLUORESCENT / ACRYLIC LENSED TROFFER - 3-LAMP	COLUMBIA JT824-332G-FSA12-3EB8-120	(1) ELECTRONIC	92	3 SYLVANIA F032/741/ECO T8	
	A4	2x4 FLUORESCENT TROFFER - 3-LAMP 3/4"x3/4"x1/2" SILVER EGGRATE LENSE	COLUMBIA JT824-332G-FSPC4-3EB8-120	(1) ELECTRONIC	92	3 SYLVANIA F032/741/ECO T8	NOTE: WHERE REQUIRED BY CODE: "FIXTURE TO HAVE TWO (2) BALLASTS FOR INBOARD / OUTBOARD DUAL LEVEL SWITCHING"
	A4d	2x4 FLUORESCENT TROFFER - 3-LAMP 3/4"x3/4"x1/2" SILVER EGGRATE LENSE	COLUMBIA JT824-332G-FSPC4-3EB8-120	(1) ELECTRONIC	92	3 SYLVANIA F032/741/ECO T8	NOTE: PROVIDE RECESSED DRYWALL KIT FOR FIXTURE LOCATED IN THE OFFICE
	A5	1x4 CROSS BAFFLE WALL WASHER FIXTURE	LIGHTOLIER WLRN244-120SB	(1) ELECTRONIC	64	2 SYLVANIA FT40DL/830/RS	
	A6	2x4 FLUORESCENT / ACRYLIC LENSED TROFFER - 3-LAMP	COLUMBIA JT824-332G-FSPC4-3EB8-120	(1) ELECTRONIC	54	3	
	A7	1x2 CROSS BAFFLE WALL WASHER FIXTURE	LIGHTOLIER WLRN244-120SB	(1) ELECTRONIC	64	2 SYLVANIA FT40DL/830/RS	
	A8	2x4 FLUORESCENT - DIRECT / INDIRECT TROFFER - 3-LAMP (RESTROOMS)	LIGHTOLIER CFS2GPF/332/UNV/H3	(1) ELECTRONIC	92	3 SYLVANIA F032/741/ECO T8	
	B1	SAME AS TYPE A1 EXCEPT WITH EMERGENCY BATTERY PACK	COLUMBIA JT824-332G-FSA12-3EB8-120	(1) ELECTRONIC	92	3 SYLVANIA F032/741/ECO T8	90 MINUTE BATTERY
	B4	SAME AS TYPE A4 EXCEPT WITH EMERGENCY BATTERY PACK	COLUMBIA JT824-332G-FSPC4-3EB8-120	(1) ELECTRONIC	92	3 SYLVANIA F032/741/ECO T8	90 MINUTE BATTERY
	B5	SAME AS TYPE A8 EXCEPT WITH EMERGENCY BATTERY PACK	LIGHTOLIER CFS2GPF/332/UNV/H3	(1) ELECTRONIC	92	3 SYLVANIA F032/741/ECO T8	90 MINUTE BATTERY
	C1	EXTERIOR WALL SCONCE CYLINDER "HOLLYBERRY" FIXTURE	JANMAR 1955E-2x32DTA-APAR38D-AB-LMP	(1) ELECTRONIC	68	2 32w 4-PIN TRIPLE-TUBE	LABELLED FOR WET LOCATION CL OF PILASTER MOUNT AT 7'-0" A.F.F. CL OF FIXTURE
	C2	EXTERIOR WALL SCONCE - 360 DIST. W/ DIAMOND TILE PLATE, RED FINISH	TROY KBF6332	(1) ELECTRONIC	84	2 SYLVANIA CF42/DTE/IN/830	LABELLED FOR WET LOCATION SAME AS ABOVE
	D5	8" DIAMETER RECESSED COMPACT FLUORESCENT	PRESCOLITE FIXTURE: CF7B32EB TRIM: STF802L	(1) ELECTRONIC	34	1 SYLVANIA CF32/DTE/IN/830	INCLUDE ONLY WHERE REQUIRED. PROVIDE LENSE AT FOOD SERVICE LOCATIONS
	E1	EXTERIOR WALL PACK	WF HARRIS LIGHTING 1200WP-HB-242PLT-HPF-120/277-EM01	(1) ELECTRONIC	84	2 INCLUDED (2) 42PLT	LABELLED FOR WET LOCATION WITH 90 MINUTE BATTERY- PHOTOCELL CONTROL
	F4	1x4 FLUORESCENT STRIP LIGHT W/ CLEAR LENSE	COLUMBIA CS4-232-EB8-120	(1) ELECTRONIC	65	2 SYLVANIA F032/741/ECO T8	PROVIDE CLEAR LENSE PROTECTIVE COVER
	K1	BLACK TRACK HEAD OR MONOPOINT W/ LAMP RING	LIGHTOLIER HEAD: 8201BK RING: 8238BK	(1) ELECTRONIC	75	1 SYLVANIA 75PAR30/CAP/FL	REFER TO PLAN TO PROVIDE TRACK (LENGTH PER PLAN) OR MONOPOINT BASE.
	K4	BLACK TRACK AT MERCHANDISE COUNTER	LIGHTOLIER HEAD: 83W6BK BALLAST: 83B705BK	(1) ELECTRONIC	70	SYLVANIA# MC70T6/U/G12/930PB	SEE ARCHITECTURAL PLANS FOR MOUNTING LOCATIONS
	LP-22	4'-0" LONG VANITY LIGHT OVER RESTROOM LAVATORIES	LIGHTOLIER LPW2184U	(1) ELECTRONIC	71	2 SYLVANIA F032/741/ECO	MOUNT AT 7'-0" A.F.F. CL OF FIXTURE
	X1	LED EXIT SIGN WITH 90MIN. BATTERY PACK	DUAL-LITE CV3REW	(1) ELECTRONIC	2.2	M INCLUDED LED	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES
	X2	EMERGENCY LIGHT WITH 90MIN. BATTERY PACK SURFACE MOUNTED	DUAL-LITE CV2	(1) ELECTRONIC	12	INCLUDED	ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES
	X3	REMOTE HEAD WITH 90 MIN. BATTERY BACKUP - EXTERIOR MOUNTED	DUAL-LITE	(1) ELECTRONIC	INCLUDED		ADDITIONAL FIXTURES MAY BE REQUIRED BY LOCAL AUTHORITIES

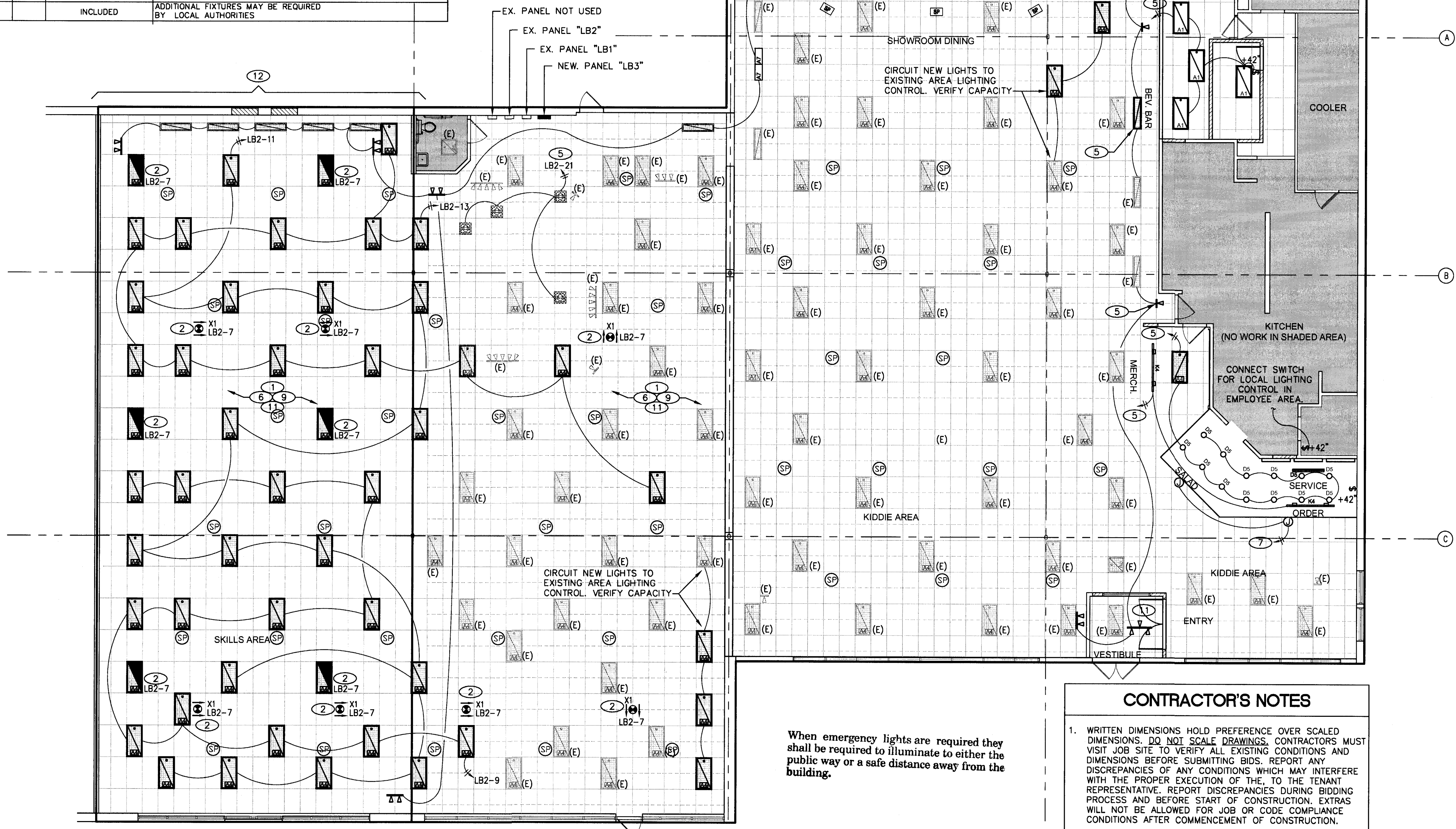
NOTE: GENERAL CONTRACTOR SHALL PROVIDE 'SYLVANIA' LAMPS IN ALL FIXTURES. VOLTAGE FOR ALL FIXTURES IS 120V.

SHEET GENERAL NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY CEILING TYPE AND PROVIDE NECESSARY MOUNTING HARDWARE TO ACCOMMODATE LIGHT FIXTURES USED. PROVIDE SLOPE CEILING ADAPTERS WHERE REQUIRED.
- OUTLETS, SWITCHES, AND PLATES SHALL BE: A) STAINLESS AT FRP. B) GREY AT MARLITE. SAFETY RECEPTACLES, LEVITON 5262-SGG RECEPTACLES, 80703 EG PLATE. C) WHITE AT ALL OTHER AREAS. D) CEILING OUTLETS SHALL BE PAINTED TO MATCH CEILING COLOR.
- VERIFY ALL EXISTING/RELOCATED LIGHTING FIXTURES ARE IN PROPER WORKING ORDER. CLEAN & RELAMP FIXTURES. REPLACE WITH SAME TYPE FIXTURE, AS NECESSARY.
- ALL EMERGENCY EGRESS, EXIT, NIGHT LIGHT FIXTURE ARE TO BE CONNECTED TO A NON-SWITCHED CIRCUIT.
- REMOVE ALL UNUSED CIRCUIT AND CONDUIT BACK TO SERVING PANEL. PATCH WALL/CEILING. UPDATE RECORD DOCUMENTS.
- THE ELECTRICAL CONTRACTOR SHALL BE OBLIGATED TO VISIT THE JOB SITE PRIOR TO SUBMITTING HIS BID TO INSURE THAT THE EXISTING SERVICE EQUIPMENT (METER, MAIN DISCONNECT SWITCH, PANELBOARDS, ETC.) ARE CORRECT AND COMPLIANT TO THE ADOPTED VERSION OF THE N.E.C. AND LOCAL GOVERNING CODES. THE CONTRACTOR'S INSPECTIONS SHALL INCLUDE STRUCTURAL MOUNTING OF EQUIPMENT, GROUNDING AND WEATHER-PROOFING, ETC. THE CONTRACTOR WILL NOT BE PAID COMPENSATION FOR HIS FAILURE TO VISIT THE JOB SITE.
- IF DIMMER CONTROLS WERE INSTALLED FOR PREVIOUSLY DEMOLISHED GENERAL LIGHTING, CONTRACTOR TO REMOVE GENERAL LIGHTING CONTROL FROM DIMMER PANEL AND REPLACE WITH NEW 20-AMP. (SWITCHES FOR LOAD SERVED AND ADD 125% FOR SWITCH RATING) ON/OFF TYPE SWITCHES, VERIFY SWITCH TYPE WITH CEC SPECIFIC VENDOR. COORDINATE LOCATION FOR NEW SWITCHES WITH CEC REPRESENTATIVE.
- ALL DINING ROOM 2X4 LIGHTING CIRCUITS SHALL HAVE AN EXTRA "SWITCHED-HOT" WIRE FOR THROUGH-OUT CIRCUIT FOR BI-LEVEL SWITCHING.

SHEET KEYED NOTES

- CONTRACTOR SHALL CONNECT NEW LIGHTING FIXTURE TO LIGHTING CONTROL SYSTEM. MAKE FINAL CONNECTIONS.
- EMERGENCY EGRESS/EXIT FIXTURES SHALL BE ON A NON-SWITCHED CIRCUIT. CIRCUIT BREAKER SHALL BE CLEARLY MARKED WITH THE INTENDED USE AND HAVE A "LOCK-ON" DEVICE INSTALLED.
- RESTROOM/CORRIDOR LIGHTING. VERIFY CONTINUITY AND REUSE PREVIOUSLY ABANDONED RESTROOM CIRCUIT. EXTEND TO FIXTURES SHOWN.
- NEW TOILET ROOM EXHAUST FAN. FAN SHALL BE INTERLOCKED WITH RESTROOM LIGHTING SWITCH(ES). SEE ROOF PLAN MEP 1.0 FOR CIRCUIT.
- CONTRACTOR TO VERIFY CONTINUITY, RECONNECT TO EXISTING CIRCUIT AND MAKE FINAL CONNECTIONS.
- CONTRACTOR TO VERIFY EXISTING LIGHTING CONTROL SYSTEM. PROVIDE ADDITIONAL LIGHTING CONTROL DEVICES. COORDINATE WITH CEC AND FIELD CONDITIONS FOR CONTROL SCHEDULE(S) AND OTHER REQUIREMENTS.
- CONTRACTOR TO REMOVE CIRCUIT FROM DEMOED BACK-LIT MENUBOARD AND EXTEND CIRCUIT ABOVE CEILING TO NEW COUNTER SOFFIT. PROVIDE (2) NEW JUNCTION BOXES, (1) JUNCTION BOX ABOVE ORDER COUNTER AND (1) JUNCTION BOX ABOVE SALAD BAR FOR LED SIGNAGE TRANSFORMER(S). COORDINATE WITH STARLITE SIGN FOR INSTALLATION DETAILS.
- REUSE EXISTING CEILING MOUNTED TELEVISION RECEPTACLE FOR NEW TELEVISIONS.
- E.C. TO VERIFY EXISTING CEILING MOUNTED DEVICES (SPEAKERS, MOTION SENSORS, CAMERAS, SECURITY, ETC.) FOR REUSE. REMOVE, PROTECT, CLEAN & REINSTALL IN NEW CEILING. VERIFY DEVICES ARE IN PROPER WORKING ORDER. REPLACE AS NEEDED, MATCH EXISTING.
- CONTRACTOR TO PROVIDE NEW 2#12, 1#12G IN 3/4" TO NEW 20-AMP "SWITCH RATED" CIRCUIT BREAKER FOR RESTROOM LIGHTING CONTROL.
- CONTRACTOR TO FIELD VERIFY EXISTING FIRE ALARM AND DEVICES PRIOR TO REMODEL. RELOCATE DEVICES ONLY WHEN NECESSARY FOR WORK TO BE PERFORMED. RETAIN EXISTING "ZONES", AND CREATE NEW ZONES IN EXPANSION AREA(S). ADDITIONAL DEVICES REQUIRED SHALL BE COMPATIBLE WITH EXISTING SYSTEM. INSTALL IN ACCORDANCE WITH STATE AND LOCAL ORDINANCES.
- CONTRACTOR TO VERIFY EXISTING EXTERIOR BUILDING LIGHTING OF EXPANSION AREA. CONTRACTOR TO CLEAN, RELAMP AND RE-CIRCUIT TO NEXT AVAILABLE SPARE CIRCUIT IN C.E.C. LIGHTING PANEL. PROVIDE LIGHTING CONTROL THRU EXTERIOR LIGHTING CONTROL SYSTEM. PROVIDE NEW LIGHTING AND/OR CONTROL AS REQUIRED.



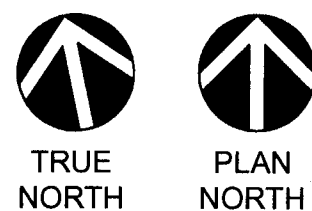
When emergency lights are required they shall be required to illuminate to either the public way or a safe distance away from the building.

CONTRACTOR'S NOTES

- WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF THE, TO THE TENANT REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. EXTRAS WILL NOT BE ALLOWED FOR JOB OR CODE COMPLIANCE CONDITIONS AFTER COMMENCEMENT OF CONSTRUCTION.
- ALL TRANSITIONS MUST BE SMOOTH AND FLUSH.

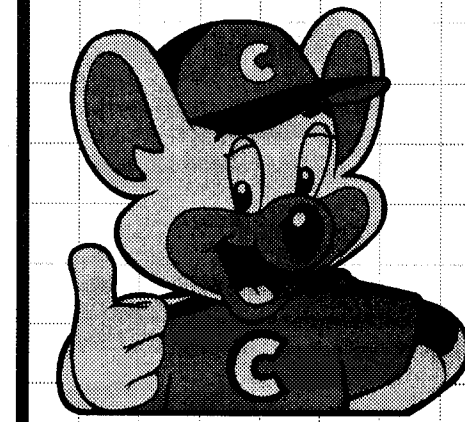
1 LIGHTING FLOOR PLAN

SCALE: 1/8" = 1'-0"



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PROJECT NO: 101301
DRAWN BY: DAL
CHECKED BY: SH
ISSUE DATE: 12/06/10

E1.0

FLOOR PLAN - LIGHTING

SHEET GENERAL NOTES

- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH HE IS TO PERFORM HIS WORK. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY.
- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- ALL WIRES SHALL BE COPPER ONLY, THHN OR N.E.C. APPROVED EQUAL OR BETTER. ALL WIRING SHALL BE IN CONDUIT. WIRE AMPACITY BASED ON N.E.C. 110-14C AND TABLE 310-16.
- ALL RECEPTACLES IN PUBLIC SPACES SHALL BE TAMPER-PROOF TYPE CONCEALED FROM VIEW, IF POSSIBLE.
- ALL WIRING PER N.E.C.-518, (ASSEMBLY).
- ELECTRICIAN TO VERIFY EXISTING UNDER-FLOOR UTILITIES PRIOR TO ANY PENETRATIONS. PROVIDE ADEQUATE SPACE FOR ROUTING CONDUIT(S).
- FLOOR RECEPTACLES SHALL BE FLUSH MOUNTED, CARLON #E971FB WITH BRASS COVER #E97BR2. VERIFY WITH PROJECT MANAGER ANY FINAL CHANGE TO GAME ELECTRICAL SPECIFICATIONS AND LAYOUT PRIOR TO INSTALLING. USE 3/4" CONDUIT UNDER-SLAB FOR ALL FLOOR OUTLETS. SEE DETAIL, THIS SHEET.
- ALL CONDUCTORS SHALL BE COLOR-CODED AS REQUIRED PER LOCAL CODES AND JURISDICTION.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMMUNICATION AND WIRING OUTLETS SUCH AS DATA/MICROS/POS, PRINTER, CREDIT CARD (VALIDATOR) ASSOCIATED WITH CHUCK E CHEESE'S SHALL BE CONNECTED TO THE CHUCK E CHEESE'S COMPUTER DATA SYSTEM INSIDE THE OFFICE.
- CONDUIT FITTING CONNECTIONS SHALL BE OF THE COMPRESSION TYPE. CONTRACTOR IS RESPONSIBLE FOR ALL TERMINATIONS.
- COORDINATE WITH LATEST GAME LAYOUT PRIOR TO CONSTRUCTION.
- ALL NEW/RELOCATED WALL OR COLUMN RECEPTACLES SHALL BE MOUNTED AT 18" A.F.F. UNLESS DIRECTED OTHERWISE.
- COORDINATE LOCATIONS AND ROUTING OF FEEDERS TO PANELBOARDS WITH LANDLORD AND PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED BY LANDLORD AND OWNER.
- WHERE THE WORD "PROVIDE" IS USED, THE WORD IS UNDERSTOOD TO MEAN "THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND MAKE FINAL CONNECTION TO THE EQUIPMENT", UNLESS OTHERWISE NOTED.
- VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS (INCLUDING HVAC EQUIPMENT) PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED FUSIBLE SWITCHES, TRANSFORMERS, STARTERS NECESSARY FOR PROPER OPERATION OF EQUIPMENT.
- ROOF PENETRATION TO ROOF TOP UNIT SHALL BE MADE WITHIN THE ROOF CURB OR THRU CURB TO THE UNIT PER LANDLORD'S DESIGN SPECIFICATIONS AND REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CASH REGISTER WIRING AND CONNECTIONS. ALL REGISTER RECEPTACLES SHALL BE I.G. TYPE.
- LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR PER A.D.A. REQUIREMENTS. RESOLVE ANY CONFLICT IN MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.
- REFER TO ALL DISCIPLINES, INCLUDING ARCHITECTURAL & KITCHEN, PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- E.C. SHALL PROVIDE AND INSTALL ALL COMMUNICATION AND WIRING OUTLETS SUCH AS DATA/MICROS/POS, PRINTER, CREDIT CARD (VALIDATOR) ASSOCIATED WITH CHUCK E CHEESE'S SHALL BE CONNECTED TO THE CHUCK E CHEESE'S COMPUTER DATA SYSTEM INSIDE THE OFFICE.

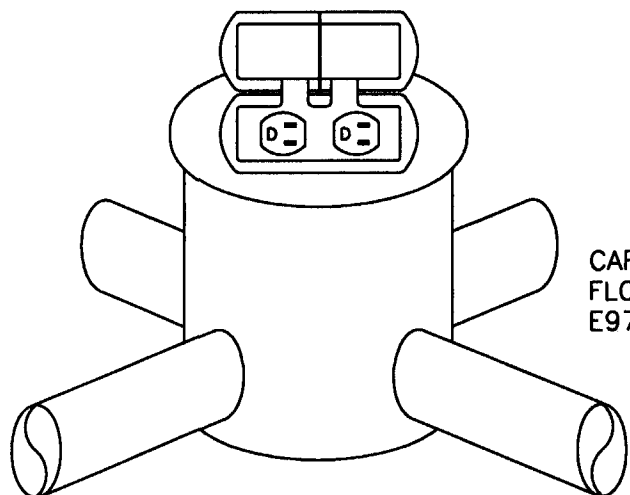
SHEET KEYED NOTES

- CONTRACTOR SHALL COORDINATE WITH DEMOLITION DRAWING AND NEW LAYOUT DRAWINGS FOR ALL IN-FLOOR, WALL, COLUMN ELECTRICAL DEVICES AND POWER POLES TO BE DEMOLISHED, RELOCATED OR REUSED. ALL DEMO'D CIRCUITS SHALL BE COMPLETELY REMOVED BACK TO THEIR SOURCE AND LABELED "SPARE". CIRCUITS BEING REROUTED OR REUSED SHALL BE REMOVED TO A CONVENIENT LOCATION PROTECTED FROM CONSTRUCTION. REUSED DEVICES SHALL BE BROUGHT UP TO AND INSTALLED PER N.E.C. AND LOCAL CODES. UPDATE ALL RECORD DOCUMENTS. VERIFY INTEGRITY OF ALL CIRCUITS.
- NEW WALL/COLUMN BRANCH CIRCUIT. PROVIDE NEW 2#12,1#12 IN 3/4"C. FOR ENTIRE RUN SHOWN (RUN >100'-0" SHALL BE #10'S). PROVIDE SHORTEST-RUN-POSSIBLE TO PANEL. AVOID INTERFERENCE WITH OTHER DEVICE RUNS. UPDATE RECORD DOCUMENTS. REFER TO GENERAL NOTES, THIS SHEET.
- NEW UNDER-FLOOR BRANCH CIRCUIT. PROVIDE NEW 2#12,1#12 IN 3/4"C. FOR ENTIRE RUN SHOWN (RUN >100'-0" SHALL BE #10'S). PROVIDE SHORTEST-RUN-POSSIBLE TO PANEL. AVOID INTERFERENCE WITH OTHER DEVICE RUNS. UPDATE RECORD DOCUMENTS. REFER TO DETAIL #2 AND GENERAL NOTES, THIS SHEET.
- EXISTING OUTLET TO REMAIN. VERIFY CIRCUIT INTEGRITY AND CODE COMPLIANCE. REPLACE ONLY AS NECESSARY. UPDATE RECORD DOCUMENTS FOR LOAD(S) SERVED.
- EXISTING RTU. CONTRACTOR TO VERIFY THE INTEGRITY OF ENTIRE BRANCH CIRCUIT, CIRCUIT BREAKER AND CODE COMPLIANCE.
- NEW RTU. SEE MEP 1.0, ROOF PLAN AND PANEL SCHEDULE DRAWINGS FOR ELECTRICAL INFORMATION.
- NEW HAND DRYER. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL, RESTROOM LAYOUT AND A.D.A. COMPLIANCE PRIOR TO ROUGH-IN. PROVIDE A COMPLETE NEW CIRCUIT TO NEW 1,500-WATT, 115-VOLT, HAND DRYER. MAKE FINAL CONNECTIONS AND UPDATE RECORD DOCUMENTS.
- INSTALL A RECESSED CLOCK OUTLET WITH JUNCTION BOX ABOVE DOORS FOR RELOCATED SECURITY MONITOR. CENTER HORIZONTALLY AND VERTICALLY ON THE WALL ABOVE DOOR. PROVIDE A JUNCTION BOX AND CONDUIT STUBBED UP INTO CEILING SPACE WITH PULLSTRING IN CONDUIT FOR VIDEO CABLE.
- INSTALL A RECESSED CLOCK OUTLET WITH JUNCTION BOX AT 8'-0" A.F.F. FOR RELOCATED SECURITY MONITOR. PROVIDE A JUNCTION BOX AND CONDUIT STUBBED UP INTO CEILING SPACE WITH PULLSTRING IN CONDUIT FOR VIDEO CABLE.
- CONTRACTOR TO VERIFY ALL ELECTRICAL DEVICES IN EXISTING TECH ROOM PRIOR TO DEMOLITION. REMOVE CIRCUITS AND DEVICES BACK TO A SUITABLE LOCATION FOR EXTENSION INTO NEW TECH ROOM. REUSE EXISTING CIRCUITS.
- NOT USED.
- CONTRACTOR SHALL VERIFY PRIOR TO DEMOLITION ALL SECURITY CAMERAS, MONITORS, SMOKE AND MOTION DETECTORS, SPEAKERS, ETC. DISCONNECT, REMOVE, PROTECT DURING CONSTRUCTION AND REINSTALL IN NEW CEILING. COORDINATE WITH C.E.C. REPRESENTATIVE FOR NEW CAMERA AND SPEAKER LOCATIONS. MOTION DETECTORS SHALL BE RELOCATED PER SECURITY MANUFACTURERS RECOMMENDATIONS AND SMOKE DETECTORS SHALL PROVIDE COVERAGE PER NFPA AND LOCAL ORDINANCES. REPLACE MALFUNCTIONING DEVICES WITH NEW, LIKE DEVICES. MATCH AS-MUCH-AS POSSIBLE NEW CEILING COLOR.
- CONTRACTOR TO FIELD VERIFY EXISTING FIRE ALARM AND DEVICES PRIOR TO REMODEL. RELOCATE DEVICES ONLY WHEN NECESSARY FOR WORK TO BE PERFORMED. RETAIN EXISTING "ZONES", AND CREATE NEW ZONES IN EXPANSION AREA(S). ADDITIONAL DEVICES REQUIRED SHALL BE COMPATIBLE WITH EXISTING SYSTEM. INSTALL IN ACCORDANCE WITH STATE AND LOCAL ORDINANCES.
- NEW TOILET ROOM EXHAUST FAN. FAN SHALL BE INTERLOCKED WITH RESTROOM LIGHTING SWITCH(ES). SEE ROOF PLAN MEP 1.0 FOR CIRCUIT.
- SALAD BAR: CONTRACTOR TO REWORK SALAD BAR PER ARCHITECTURAL DIRECTION. SEE ARCH SHEETS. PROVIDE NEW ELECTRICAL DEVICES AS NEEDED. REUSE EXISTING CIRCUITS. SEE SHEET E3.0 FOR INFORMATION.
- E.C. SHALL RE-USE EXISTING CIRCUIT FOR NEW ICE MACHINE. PROVIDE NEW CONDUIT AND WIRE TO NEW LOCATION. SEE SHEET E3.0 FOR INFORMATION.

CONTRACTOR'S NOTES

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- ALL TRANSITIONS MUST BE SMOOTH AND FLUSH.

CARLON BRASS SINGLE-GANG COVER/CARPET FLANGE E97BR2



CARLON ROUND FLOOR BOX E971FB

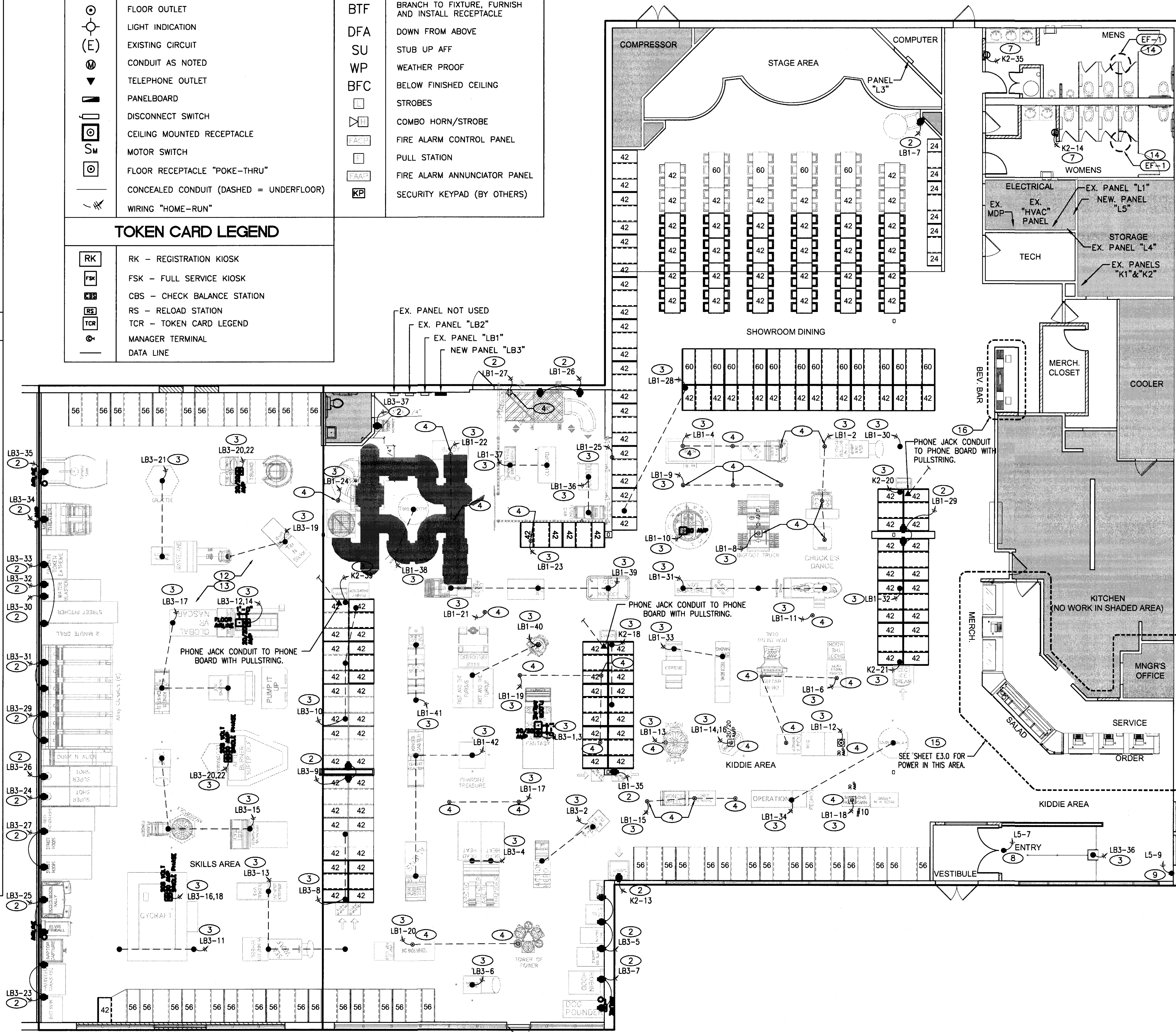
2 FLOOR BOX
SCALE: N.T.S.

SYMBOLS + ABBREVIATIONS LEGEND

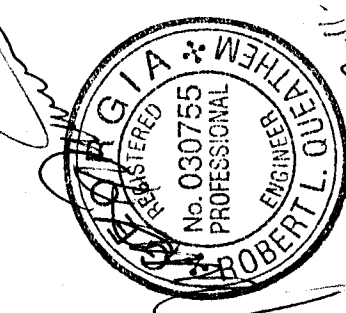
	SINGLE CONVENIENCE OUTLET (SCO)	Sp	SWITCH AND PILOT LIGHT
	DOUBLE CONVENIENCE OUTLET (DCO)	EL	ELEVATION A.F.F.
	JUNCTION BOX (JB)	A	AMPERES
	QUADRUPLEX	V	VOLTS
	MOTOR OUTLET	W	WATTS
	SOLENOID OR CONTROL CIRCUIT	PH	PHASE
	SINGLE POWER OUTLET AS NOTED	AFF	ABOVE FINISHED FLOOR
	CONVENIENCE OUTLET, 2-CIRCUIT, 120/208V-1PH, 3 WIRE (OR AS NOTED)	BTC	BRANCH TO CONNECTION POINT AND CONNECT EQUIPMENT
	FLOOR OUTLET	BTF	BRANCH TO FIXTURE, FURNISH AND INSTALL RECEPTACLE
	LIGHT INDICATION	DFA	DOWN FROM ABOVE
	EXISTING CIRCUIT	SU	STUB UP AFF
	CONDUIT AS NOTED	WP	WEATHER PROOF
	TELEPHONE OUTLET	BFC	BELOW FINISHED CEILING
	PANELBOARD		STROBES
	DISCONNECT SWITCH		COMBO HORN-STROBE
	CEILING MOUNTED RECEPTACLE		FIRE ALARM CONTROL PANEL
	MOTOR SWITCH		PULL STATION
	FLOOR RECEPTACLE "POKE-THRU"		FIRE ALARM ANNUNCIATOR PANEL
	CONCEALED CONDUIT (DASHED = UNDERFLOOR)		SECURITY KEYPAD (BY OTHERS)
	WIRING "HOME-RUN"		

TOKEN CARD LEGEND

	RK - REGISTRATION KIOSK
	FSK - FULL SERVICE KIOSK
	CBS - CHECK BALANCE STATION
	RS - RELOAD STATION
	TCR - TOKEN CARD LEGEND
	MT - MANAGER TERMINAL
	DL - DATA LINE

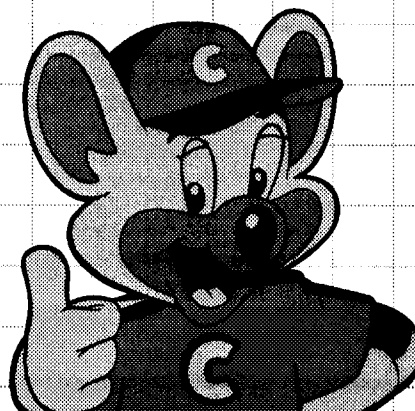


1 POWER FLOOR PLAN
SCALE: 1/8" = 1'-0"



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ISSUE DATE: 12/06/10

E2.0

FLOOR PLAN - POWER

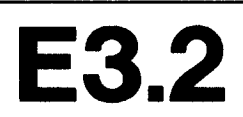


PANELBOARD DESIGNATION				EXISTING "K1"				NEW INSTALL				EXIST LOCATION				RELOCATED EXIST																											
120/208				VOLTS				3				PHASE				4				WIRE, SOLID NEUTRAL				400				AMPERE BUS				400				AMPERE MAIN				LUG			
TOP FED				X				BOTTOM FED				FE				FLUSH MTD								SURFACE MTD				X								FEED THRU							
CKT #	DESCRIPTION			WATTS	LOAD TYPE	WIRE SIZE	BKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION			CKT #																													
1	PIZZA PREP TABLE-(E)			1200	K	12	20	1	2490	3	15	12	K	1290	WI COOLER COMPRESSOR-(E)	2																											
3	PORTABLE REFRIGERATOR-(E)			1248	K	12	20	1	2538					1290		4																											
5	ICE TEA MACHINE-(E)			800	K	12	20	1	2090					1290		6																											
7	COFFEE MAKER-(E)			800	K	12	20	1	2380	1	15	12	K	1580	DISHWASHER-(E)	8																											
9	UNDERCOUNTER REFRIG-(E)			1248	K	12	20	1	2828	1	15	12	K	1580	DISHWASHER-(E)	10																											
11	DOUGH ROLLER-(E)			1500	K	12	20	1	2350	1	15	12	K	850	MIXER-(E)	12																											
13	DRINK TOWERS-(E)			1000	K	12	20	1	2032	3	15	12	K	1032	MIXER-(E)	14																											
15	GLASS CHILLER-(E)			1000	K	12	20	1	2032					1032		16																											
17	DOCUMENTOR-(E)			800	K	12	20	1	1832					1032		18																											
19	DOCUMENTOR-(E)			800	K	12	20	1	1880	2	30	10	K	1080	ICE MAKER-(E)	20																											
21	DOCUMENTOR-(E)			800	K	12	20	1	1880					1080		22																											
23	REFRIGERATOR-(E)			1248	K	12	20	1	2328	2	15	12	K	1080	ICE MAKER CONDENSOR-(E)	24																											
25	OFFICE ALARM-(E)			200	M	12	20	1	1280					1080		26																											
27	EMP LOUNGE RECEPT-(E)			180	R	12	20	1	380	1	20	12	K	200	HUMIDIFIER-(E)	28																											
29	OFFICE RECEPT-(E)			360	R	12	20	1	1660	1	20	12	K	1300	SOFT SERVE MACHINE-(E)	30																											
31	UTILITY-(E)			1000	K	12	20	1	2000	1	20	12	K	1000	DRINK DISPENSER-(E)	32																											
33	FREEZER-(E)			1584	K	12	20	1	2584	1	20	12	K	1000	DRINK DISPENSER-(E)	34																											
35	BUN TOASTER-(E)			1800	K	10	30	2	2800	1	20	12	K	1000	WI COOLER LIGHT&FAN-(E)	36																											
37				1800					3300	1	20	12	K	1500	STRIP HEATER-(E)	38																											
39	REACH IN FREEZER-(E)			1850	K	10	30	2	3350	1	20	12	K	1500	STRIP HEATER-(E)	40																											
41				1850					4850	1	20	12	K	3000	COTTON CANDY MACHINE-(E)	42																											

NOTE: ALL BREAKERS SHALL BE BOLT-ON, UNLESS OTHERWISE NOTED.
NOTE: PROVIDE DOUBLE LOCKS ON PANELS IN PUBLIC AREAS.
● - INDICATES THIS CIRCUIT TO RECEIVE HANDLE LOCK-ON CLIP
T/C - INDICATES THIS CIRCUIT TO BE CONTROLLED BY A TIMECLOCK
* - REFER TO ONE-LINE DIAGRAM FOR WIRE SIZE TO THIS EQUIPMENT

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Date	Draw #	Dist
5-9-11	3565	0
Permit #	Job Name	
2011000 12449	3435 WRIGHTSBORO RD	
Plan Review	Job Address	
YES	Chuck E Chase	
Mark	Location	
11m	parkway lost	

Chuck E Chase